

tttcatagga cttagttcca gcaaagcaaa ggttgacatt gcaccaaaca atagcgtcta 240
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tgagaagggt ctgcatcaag agaaaccaaa gcaaaatctt tgcacatga gagcaccgat 360
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ctcgcccaaa cttcgccgcc gcgtaccctt cggcttctag tgatgtctgg tggtaacgcg 180
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-A2

<400> 35795

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caaggacgtg cagggcctca gtccttcgca gtacacgatg gagcgcgggg tgggtgcacgc 180
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ggtgtgatca tatcgatcg tcgagccgca ccgcgcgcgc ggtttgtttt gcagcggcta 360
cctacctagc tgcatatgct tgccaggccg gtgtccagcc gtcgcgggtc tgtgtgcatg 420
catgcaacag cccagcagac cacgggctac cgtgc 455

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 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 35796

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gatggcaaag atttgcgctt agggaaggag gaagaatggt cggtgctgga gtcgtctcca  180
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ttagcacatt ctttatcttc aattattgga agaaacattt ttgcgccaat tacatgaaag  300
tggttgcagt ttttaagggtc tgttcaatcc ctctccaaga tattgtaagt gtatgaaatc  360
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<223> Clone ID: LIB3069-056-Q1-K1-A4

<400> 35797

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ctagtgttac agatggcaaa gatttcccct taatgaatga ggaataatag tccgtgctct  180
actcgtcttc aaagttctta gctgatcaac ttctactttc ttcttcgtag tcatgttgca  240
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catgtgccta catcaacatc ctcaacggat atacaactgg gtgcttctac gtcgatggga 180
gcagcacgac attttaacga ttacgaagac atattgcaaa aatggcacat attaacctaa 240
ctactggatt cacatgaagg atgcagtgat ccttcttaaa ctggactgaa ttgcacaata 300
tgccctgtga aatctaaa 318

<210> 35799

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-A6

<400> 35799

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actacgaata cgaccgcata ggcccgctc ccccggtcta ctgaggctac ggccagccac 180
cgacacccga cccgtacggt cgcgcgcccg ttgacccga tccgtacggt cgacctccga 240
cccagtccgt gtacatgagg gccgg 265

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<211> 249

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-A7

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tactccttca ctggcggcga ggtcctggcg cgcgccgtgt ccgacctctg gccgtcctc 180
tgcgacacac tcgtcctcaa cggcctacat gcagtcctat ccgacgtcct catgccctac 240

tcatggcag

249

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<211> 297

<212> DNA

<213> Zea mays

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ggatgcgctc ggaaaactgg gccctgcctt cggcatcggc gccggctgcg gcgtgggtct 180

tggcttcggc ctcacgag gtgcaggcat cggagctgga ttccctgggt tacaattggg 240

gtttggagct ggagctggat gtggaatatg aataagtttt ggttacggct ttggaaa 297

<210> 35802

<211> 133

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-F5

<400> 35802

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tgtgcctatg ttc 133

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<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 35803

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ggtgcctaca tcaagacggg aattcaaaga tatttatggt gttgatgaac ttatggagcc 180
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 tctgtaccaa ctgatccgtg ctgtgaaata catgcacaca gctaacgtat atcacccggga 300
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<210> 35804

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-F7

<400> 35804

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 aagtcgcgcg tcaagtgtt catcaagctc gtcaacttca ctcacctcat gccacccgc 180
 tacaccctcg acgtcgattt caaggatgtc gccaccggtg ggcccgacgc actctctacc 240
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 agtcctgctt tagctgtcga tttgtttgat cgggcacact ccattctctgt ttctgtttac 420
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<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-F8

<400> 35805

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 aggggggttca gctgctgagg aaggtgtgga agatgccttt gaactgcttc atgagatcaa 180

tgaacgtgtc cggactgggc tatgggttgg tgattgtttt atctacaaca attcttcgtg 240
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gtatttacta agatatcttg caaaccaaag cgtgtgtctat cttattgata agcaatttaa 360
tgttgtgggg tatactttac tccttagttt gatcgagtat aaaacacttg taatgcgtgg 420
ggattttgat cgtgcaaag atgttttatc atcta 455

<210> 35806
<211> 348
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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gagactgttc tcatgggaag atatattcaa gtcattggacc atgactcctt gacagntgtc 120
aaacttaaga tgacactgtg agctgatgac aatagtata ccagccacta caacgttgaa 180
actaccataa aacctcaatg cctgcatcaa gtttaattctg tggcattctt tcaaactcca 240
catcttactg catgaaagca tccaaagctg gtgtgtctat gccgctatat gccacaatca 300
tgtgagacgg aaagaacaag acaaagcaag gaacagattg aaacaaat 348

<210> 35807
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-G1

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tttgtgagaa aaaaaaagct taataaaaca caaaaaattc actcacctaa taccaccccg 180
atacaccta gacgttaaaa tactatgatg tcatcaccgg agggcccaaa aacactctct 240
accacgcaca agaatgtcga cgctgcacg acggccaaag cgcgccttga tgagatgttc 300

aatg

304

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<211> 416
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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ctctgcctgt caggggtgagt ccttctaaga ctccggtgaa gccacgtgta aatcgaatgg 180
gatctaactg actctgccta agctcaaccg gaaggcatgg ccataagctg aaggcttccg 240
tggtcctgtg catcatgatg catttgettta cattcttaca aacactctgt ttgtaccctt 300
ttgcaaacct gttngnaggg aacttggttag gtcaggccct tttgccttgc attttaaaca 360
tgatggaacc attgagaatg actattccgc aattaaccat caaaagtact tctgtc 416

<210> 35809
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-G11

<400> 35809

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ccgtctagta gtgtttatgg tgaaggcatt cagaggccag ttttggcaag gggtaatggc 180
ccaagtgtgc ctgtgtccag ccgttattcc tttaatggcc caccagcata ttgatggatt 240
gcctagatgc aagcactcaa at 262

<210> 35810
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-G12

<400> 35810

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gatgtgtcaa accccaaatc agaaccgaan aaaaaagaaa agcagcagct agaagaaaga 180
agaacaccca ctctaccagc agcaagcagg caatcaagca accagcannt aacgaaatgt 240
cgatccaagt acctgcgacc agcacaangg acctgcgag cggcagcgtc tgtaccgtcg 300
cttctgcgcc gccctgggtgg gcgtcatcgt gctcgtcctc ctcacgtgc tcacgtctcg 360
gctcgtcctc cgccccacca agcctcgtt cttcctcaac gacgtgagca tcgtgtgca 419

<210> 35811

<211> 183

<212> DNA

<213> Zea mays

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<400> 35811

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ctgtgggact aaaaaatta actagaagac agcagagaca attgtagcac tagcatacca 120
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tct 183

<210> 35812

<211> 387

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-G3

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gcagcctgtg cgtcccgccg ccgtcaagat cagtgatccg gccggggacg ctgcggcggt 180
cgtgccgccc tcgccggctt cgggtagcga ggagacgccg gtgaagggtga cgcgcagcat 240

catgatcaag cgccccgcgg ggtacccgctc gtcgccgagg agcgcggcaa gcacgccgctc 300
 ggccctcgcca ctggggacta cngccgccat ctcgccgttt gccggcgccg gtggctcgctt 360
 cagaaggaaa tcatcgctccg acgcata 387

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 <211> 112
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 <223> Clone ID: LIB3069-055-Q1-K1-G4
 <400> 35813

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 tagtcaggcc catgagttca agaaacaggg ggtgtagatt cgtcgggaaga ca 112

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 <211> 456
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-055-Q1-K1-G6
 <400> 35814

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 gacttctgat ctacatagtc aggcccagga gttcaagaaa caggggggtga agattcgtcg 180
 gaagacatgg ctgcagaacg tgaaaattaa gctgggtgatt cttggaatcc ttttgctcct 240
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 gtagtaataa gaatgggtga acacgactgt ggcagagctg cgatggatgt gagtttgtgc 360
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<210> 35815
 <211> 452
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 <223> Clone ID: LIB3069-055-Q1-K1-G7

<400> 35815

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catcttctgg caggaggaca tcatccccctt cttccagaac gtgaccatcc ccaaggactg 180

cgacaccgtc caaaagtgtc acatctacct ctctggacaa gtgaaggaga agctggggcac 240

gattgacccc tactttgtca agctcggtga cgccatggtc acctggatcg aggcctggga 300

tgagctgaac ccgtcgaccc ctgccgccgc aaatggcaag gccaagtaga tgtgccatca 360

cttcggcact ggagtgaaaa agaaagtatg attgggtcct gcctaggccc catagatata 420

gctctttttt gagaaggaag agagattaat tc 452

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<211> 459

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<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-G8

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gtcgacgccg gcgacgtcga cggcgccatc gtcctccttg agtccgtcgt ctacgatttg 180

tcaacctccg ctgtcccccc tgccactgac cttcgactcg ccacggcgct cggcgacctc 240

gcggaacctgc acgccgtccg gtgagacacc ctccgagccg acgagctccg tgccccgcgc 300

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<211> 259

<212> DNA

<213> Zea mays

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<400> 35817

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gataaattcg tcattgattt gatgtagtga attttcccca taggaacgct ccttcttctg 180

tttcatgtaa atgcaaaaca attccaatct tgaattcaga aatgggttac aggcttggtg 240

caaaaaacaa aaaccctaa 259

<210> 35818

<211> 350

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-H10

<400> 35818

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ctcaacaagg cagagcctag aaaagtcagc atttacaatg ttggaacagg aagaggctgc 180

tcggttaatg agttcgtcga tgcctgcaag aaggcaactg gggttaacat caaaattgag 240

tacctcagca gaaagccagg agattatgca gaagtatata gcgaccaac aaaaatcaac 300

aaggagctca actggacagc tcgatatact gatctttaag agagtctgtc 350

<210> 35819

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-F3

<400> 35819

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aggccttgcc aagtacccaa agatggtgat ccgcacggac tccgccaaga cgactgcgaa 120

gaactcgcgc gtcaagtgtc tcatcaagct cgtcaacttc actcacctca tgcccacccg 180

ctacaccctc gacctcgatt tcaaggatgt cgtcaccggt gggcccgaca cactctctac 240

ccacgacaag aacggcggcg cctgcaagac ggtcaaagcg cgccttgagg agaggttcaa 300

gaccggcaag aacagggtgt tctttaccaa gctccgcttt tagatgctcg gtcttccgaa 360
tagtcctgct ttaactgtcg atttgctgga tcggacacac ttcattctctg atttccgatt 420
accatgaata tt 432

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<211> 141
<212> DNA
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<223> Clone ID: LIB3069-055-Q1-K1-D4

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<210> 35821
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-D5

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aaatagatac aaacaaggta aactcaaagtg tgatggagac aactgaagaa catgatccat 180
ccagtgcacc cacacaaaag gttatccctg attttaacat ggcagacttg aacacaatgg 240
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aagtaaaaaa tggggagtcc aacaactgtg aacaggctaa gtcaagcttt gaagataaga 360
aagtaaacad ggcatactct gacgngcca ccaaactctga gtgcgattag cagtagcttg 420
caagatattg atgtttatac gctaaactgg 450

<210> 35822
<211> 433
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-D6

<400> 35822

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cacttggggg acgacgacac gttcgatctg gaagacattg tggtcggctc catcacccgc 360
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<210> 35823

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-D7

<400> 35823

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cggcccatgt tccagagcat gctgagccac cgcggcgaca gcgggtgcca gggcgccttc 180
tacacctacg acgccttcat cgaggccgcc agctagtctc ccggcttcgg caccaccggc 240
gacgagcaga cgcgcaggcg ggagctcgcc gacttcttcg gccagacgtc ccacgaaacc 300
accggtggat gggcgactgc tccggatgga cgttcgcct ggggatactg ccgggtgaag 360
gaacagaaac agacggaccc accctactat ggacgaggac ccataca 407

<210> 35824

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-D8

<400> 35824

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gcgatgtctg ggcgcggaag gggcggaag ggtctgggca agggcggcgc gaagcgccac 120

cggaagggtgc tccgcgacaa catccagggc atcaccaagc cgcgatccg gaggttggct 180

aggaggggtg gcgtgaagcg catctcgggg ctcatctacg aggagacccg cggcgtgctc 240

aagatctttc tcgagaacgt catccgcgac gccgtcacct acaccgagca cgcgcgccgc 300

aagaccgtga ccgccatgga cgctgtctac gcgtcaagc gccaaaggacg caccctctac 360

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ctgtgtg 427

<210> 35825

<211> 148

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-D9

<400> 35825

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atctgccttg cggatttaca acattttgca tccttcccaa cctgtctctt aataatacaa 120

cacttaatac ctatcacaac caattctt 148

<210> 35826

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E1

<400> 35826

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gaagctgttg cagtggctta tatgtcattg acctgtcaaa tgtttgtttg agttaacttg 120

caaatggaat tgtgggatcc tacattggct aaaggaatta agattttctt agcaacatca 180

actccactct ttggacacgt agctactaat tacaccgtga actaccagaa ggccgctatt 240

cagttgagct gcagtggcaa tggatatgga atgcatgcag gcccttcgcc accacgcaga 300

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ggtggt 366

<210> 35827
<211> 157
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-E10

<400> 35827

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tgagctgttg atggtaaatt aaaattcaaa tgttgcaaaa aatgttttaa caatctgtgc 120
tattttatttg tgaatagaac gcacatttgt tactact 157

<210> 35828
<211> 313
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E11

<400> 35828

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tttctcaaac tcaatcacat tctgcatata ttgtataaca actaacagat ggctctggcc 180
acagatacac agacacatgg tgatcatggcg gtaccacagg tcttcctggt gaaaacgcac 240
atatgcatgc caaccgttct ggtaccccat gtgatccaaa ggaaaccaca atatctgcta 300
ccgtgcctga tgg 313

<210> 35829
<211> 299
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E12

<400> 35829

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 tcctcgctgc gtccgggagc tgcgcccagt tcaccgcagt gctagctggt gatcccaaaa 180
 catccaacga tgataagaag gctgaagctc agccaaaggg ccataccggc aaaacagttt 240
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<210> 35830
 <211> 351
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E3

<400> 35830

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 tgcagtgtc taagccagaa ccctatatgg tggcttatgg aagggcctcg gacaattagt 180
 catgatttct caaagtctta ttgtgaggct aacctccaat tggtcattca caattcagaa 240
 gtcataaga ttttggtgag agtgggtcact tttgatgtaa ttccagagaa aactgttcat 300
 cctcatgact caaccagtgc tcaaggtgga tgggtatgatg tatcactgga a 351

<210> 35831
 <211> 195
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E4

<400> 35831

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 atacacggcg actactttgc catgcctact cccacttat aactactcac caaacacaca 120
 taccagtcta cccctctatg ccagatccct ttatggcccc aaatctattg atcatcacca 180
 aacagacatg agttt 195

<210> 35832
 <211> 430
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E5

<400> 35832

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ggcccatcct ttgagctcga aatatacttt caggatgatt ggttggaggt tttggggtgt 120
ggagtcaccg agcaggaaat tttgaaaaga aatggcagga gggaccatgt ggcttgggcc 180
tttggaattg gcttggagcg ccttgcaatg gtcctttttg acattccaga tattcgactc 240
ttctggctga atgataaacg gttcacgtcc cagttctcag aaggcaagct tgggtgtcaag 300
ttcaagccat tttcaaagtt tcctccttgt tacaaggata tgagtttctg gatcaatgat 360
gcatttacag agaacaactt atgtgaggtt gtcagaggaa ttgctggtga tcttggtgag 420
gaggtaaaac 430

<210> 35833

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E6

<400> 35833

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gatatgatac ccaggcccca tgcaatgcag cagaaccgga gaaaacaagc cgctcggttct 120
actcccgga ggtgtcgaca aagggtctct acatcaccta caacataacg caggtttcat 180
atgagctgaa tgtcttgagt actcggggcc ctaggcggat gaactgtgat atgcactaca 240
ttctacctc gtgccttgac gctggaggca ctgttcccag ccagctggac agcatgcttg 300
ctcgctctac tgatgagtca tttggcagca tttccttggt caagtcattt ggagcggacc 360
ggcctatgag tttcaccagc tcaagattct tcgacatctc aatgagcagc atccgcatga 420
ttggagacac 430

<210> 35834

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-E8

<400> 35834

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ggagagcttt gggaaggatt tatgccctgg agtcaccaaa aactcgcca tcgaagcgga 120
atgttcttag tgacctacgg agtacgaagt gtctcgggtg gcatctaggt tccactgcaa 180
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ggatttgaat gtatccatct gagctagggt atgtttcagg agctttctta aactaacgtt 300
gttgctgagc agcatgaaat ctgattagcg caaaaaaaaa aaataataaa aaaaataaaa 360
tttatatgta ttttaatata aaaa 384

<210> 35835

<211> 338

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-F10

<400> 35835

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ggcagcggcg ctgctgctgc tggcggcggn ggccgggacg gcgtcngcgg cggtgagctg 180
cggcgagggtg acgtcgtcgg tggcgccgtg cctcgggtac gcgatgggca gcgcggcgtc 240
gccctccgcg gcgtgctgca gcgngtgcg ctcgctcaac agccgcgcgt cgtcggcggc 300
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<210> 35836

<211> 301

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-F12

<400> 35836

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cgagcaggta catcaagggg gagctcgacg agctcgagcg cgaggacttc ttcaggctca 120
agaagatcca gggctacaag aaaagggaga tcgagcgcca gatggccgcc gccaggctat 180
ttgcgaggga acagcttgcc gaggatctcg cgcttaagag gggatatctcc gtgggggctg 240
cggcaaacct gctggttgct ggtggngaga aggacgacga catcatcttc tgaccactcc 300
t 301

<210> 35837

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-F2

<400> 35837

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gcgactggcc gagcagccca gctagcaagc cagccagctg tcgtaaggac cgtgggatcg 120
tgcgccagg agggagctga gagatagacc cgcacacgca agttgtgaga gagggagaga 180
aggagctgaa gctgaacggc ggcggcgggc tgaacagact ctccgagatc ttcggcgaga 240
ttagtctggg ctgatgctca tccggttggc tcctccctt ctcagctcct taaaggcatg 300
gcgcgtgtac cagagtcggc tcctctcggc tttctcttct ccagtttgct gttccagtca 360
caagttgatc gatccgttcg gtccctgtgt 390

<210> 35838

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-D3

<400> 35838

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agtgcctttt tgttctgttg ggtaacaaag ttgatgtaga tggtaggcaac agccgcgtgg 120
tatctgagaa aaaggcaaag gcatggtgtg cttccaaagg gaacatcccg tactttgaga 180
cgtctgctaa ggacggaacg aacgtggaag acgccttcca gtgtatcgtg aagaacgctc 240
tgaagaatga gccagaggaa gaactgtatg tgccagatac cgtggacgtg gtgggtggca 300

accgggceca gagatcatct ggttgctgtt aaggcacgag gcatcacgag gcgttgtgat 360
catcatcgtc gggatatgcag tgaccaaaaca atacc 395

<210> 35839
<211> 131
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B3

<400> 35839

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gcgcaaata gaattgttcaa gaattttctt tctcacagga aataacatga gtgcagtcgg 120
tgctttttatc t 131

<210> 35840
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B4

<400> 35840

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gcgagaggtc cggcggggcac acggtgttcc tgttctcgtc gccgccggcg gtgcacaacg 180
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tttggagggc tggattggtc 440

<210> 35841
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B5

<400> 35841

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catcgcttaa tgcaaaagtt ctccaagatg ttcttgctgg ccaaattgggt tcgattgcag 180

atgcccttgt tctaaatgcc gtggcatccc tacttgtcat tggtaaagtg aaaaattaca 240

tgactgtggt gcttttagcac at 262

<210> 35842

<211> 158

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B6

<400> 35842

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gaaccatctt tgtagcattt cccttttttt atcctcgcta acaaattgaa aaatacggat 120

cttgtgatgc tgtcttagtt atttgatctg gtgagctg 158

<210> 35843

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B7

<400> 35843

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gatcatagct atgactgcat tatacagttg tgctgttttc aagttcaggg cgagaagcta 120

cagggataaa tccctgtaat cagactaatg attagctgtt ctgatttaat ggacatttgt 180

aagaattcag aaagggaggg tatcttggcc tattctctcg ttgtacaaca tcgtactcac 240

atgtttccag accatgcaat ccctgcaagg gcctttacac attaaaaaaaa agaataaaaa 300

aaccctgacg ttaccaacc ttaaaaagcc tt 332

<210> 35844

<211> 446

<212> DNA

<213> Zea mays

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<400> 35844

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gtcaacgccg gcgcccaccc gcggacgccc ttctacgggg agttcctgcg cgcggccaag 120
gccgtgtgga tgctgcacct gctagccttc gcgctggagc cgcgcgccag ccacttcgat 180
gccggacgcg gtgcggagtt ccaccaggag tacatggaga gcgtgaccgg cgcgccaccg 240
cacggcggcg cgggcctggt cgtcgggttc gcgctcgcgc ccgggttccg gctggggaac 300
ggcgccgctg tgccgcgccg ggtctacctg gtgccgcgtg gtggccgacc gtgacagacc 360
catgcatggc gtgacagacc gcgtggtagc gttgcatagc gccgtggggc acggatcacc 420
tccgagagtt gttggtgggt gcccat 446

<210> 35845

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-B9

<400> 35845

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tgctgtatac tttggtgaac aagtcccaag aacaatccgt gtgaccatc agaatgatat 180
tgtgccgcgt ttaccaccgt attattatta cctaggtgaa tggacatacc accactttgc 240
tagagaggta tggcttcatg agagcataga tggaaatgta gttaccagaa acgagacggt 300
atgtgatgat tctggtgaag acccgacctg tagcaggtcg gtctatggga tgagcgtagc 360
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<210> 35846

<211> 420

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-C11

<400> 35846

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cacgggagga aatgatgcga gggaagccag gatatgagca tctgaatgaa cctctccata 180
tattggttga ggcagagcta cctgttgaca tcattgatgc tcggctgatg caagcccgcg 240
agatccttca agatctgcta aagcctgtgg atgaatccca ggacttcttc aagaagcagc 300
agctccggga gctcgcgatg cttaatggca ccctgcgtga ggaaaggatg cagaggttcg 360
gttcagcgtc cccttttcac aacagccttt gaatgaagag agccaagaca gggggtgatg 420

<210> 35847

<211> 257

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-C12

<400> 35847

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aagggtctgc gatttctctg agaggtctct gtgctcgcct tgggtcctct gacaaacata 180
gcattggcca tcaagaagga tccctcattc gtgaaaaacg ttaagaagat cgttgtgctg 240
ggtggagcgt tctttgc 257

<210> 35848

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-C3

<400> 35848

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cttctccagt gaagccaact gagccaaaaa tctccacata gcgggttgat gaatctgcca 180

caccagtacc tgccactgat tatacgttca cataacaacc agaacaagct cggacaatct 240
cattcgaaag tgaggcacgt atcgacttgg accatgttct atct 284

<210> 35849
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-C4

<400> 35849

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tctactccag agcaccacaac atagccaaaa acctccacat tgcgaattga tgaaacgccc 180
acaccagtac ctgccactga taatacgtcc acttaacagc cagaccacgc tcggataatc 240
tcatccgaga gtaaggcaca tatctactaa gaccaccgta catctgccgc tgatacaggc 300
gctcaattag ctcatcgagc atcctgcgga cccaataccg ttca 344

<210> 35850
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-C5

<400> 35850

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ccagcaccat gggcggcgcc ctgctcctca cgctgtctct cgcgggccgtg cccctctctt 180
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tggacgcggg cgcgagctg ctgcggcgga tggaggagcg cggggccggc gggcgcatca 300
tcatcgacat cagcacgcg gtcgtgccgg acctgccggc gttcgccacg gtggcggtcg 360
cgggtgccc at gctgcgctc aaggagtcca tggcggacgg gtccgagtac aacctgtcgg 420
agctgcggat ggagtgcac a 441

<210> 35851

<211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-C6

<400> 35851

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gatctcagat ttcaaaagta gtcagtgtg gatgaagaat ggtctcgcaa ttcaagactc    180
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aagtcggctc aatgtcagaa ttgagccgct tgaaatatat ttagttatat tctatgcgga    360
gagtaggtct tggaaacagc cttttccaca ataatgtaca gaaattggca taatacgcga    420
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<210> 35852
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-C8

<400> 35852

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tggtcacgag aagccggggt gagatcaaac gcctgaacag cccgaagatc accagctcag    180
gtggcacgcc tgtggcagaa ctgaaaggca tccgcagccc atccatttct gaaaaagcat    240
acagccctcg tctcactgag ctccagcatg agcgcagccc tctgggaggg agaagcaggc    300
ctaggacgcc atccaagttg ggtgaaggct cggcaccaaa gtgaataaag caatgatgca    360
ttgcttaagc tatgcaacta ctgggttact ggccatcaat tatataagtg attttaaagt    420
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 <211> 157
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-055-Q1-K1-C9

<400> 35853

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 accgttaacc aggcccagtc ccgtggcggt ggcaata 157

<210> 35854
 <211> 291
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-D1

<400> 35854

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 ggcattctga agccggacat caccggggcc ggaatgaaca tcctggcggc gtgggcgccc 180
 agcgagatgc acccgagtt cgcggacgac gtgagcctgc cttcttcat ggagtcgggg 240
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<210> 35855
 <211> 293
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 35855

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 aagcggagtt tcttggaag ccctgtggc ttttgggggt ccctcgagcc cccggatgga 180
 gaaaagtacc cgtcaagggt caaagggtccc cgaggctnaa gcggagccga cccgnngctg 240
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<210> 35856

<211> 131
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-055-Q1-K1-B2

 <400> 35856

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 ggcggaagga ctttgttcaa gaactttctt tctcacagga aataacatga gtgcagtccg 120
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<210> 35857
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 35857

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 aagacaacga gcaggcagag ctggaaggggt ggcacctgng aagtgcctta ggatctatac 180
 agaggaatat tatcttaatg aaatgcagtc agaaggaatt ccagaaatgc aaaggtccaa 240
 cctggtctcc tgcataatac agttaaagc cctaggcata gacaacatcc tngccttga 300
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<210> 35858
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-055-Q1-K1-D2

 <400> 35858

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 tgctactgct agcagtagcg ctgctccggc cgccggcgac aagggacttc ttgacgacat 180

ggtgccgtcg gcgatgaggc acgggcggta gttgactaat tactcggcta gctaattagt 240
acaatgatga cgaagcatac gatggagctg cccatcagat tatttgagc tctattatta 300
atctctgatt aattggacag agacaggaag aattgattgt aacatatgca tatacataca 360
tattaattat ctatatatag ctacggacta agcgagcgag cttctacaga atgggcgccg 420
ggt 423

<210> 35859
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H4

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tcggggacca ttcaactggc gacccctac atttacttga ccagaatacg gtgctgttgg 120
ctctcaaatc agctgcaggg aataagaggg ctgcaccga tgacgacgac cagaagtctg 180
aggtggaccc tgaacgccgt ataatcgta cgcgaagagcg ccagaagtgc ataacgaagc 240
cggccctctg tgacgacgag gaggtgatg gaaagagctc tgtcacaagc caatccatca 300
cgaagaggag gacatccggc tctggctggg cctacactgg tcacgagtac accatcaaga 360
gggccagtgg cgatc 375

<210> 35860
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H5

<400> 35860
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ggggcccgcc ttctgtgcca cccagcagc ctggctatgg ttatatgcag cctggggctt 180
atcctggggc accgccacag tatggtgcac ctcagcaacc ttatggtagc tccccccaa 240
catctgggtg ttatcagact ggatgggatc agtctcaaaa ccagcaatct catacaactc 300

ccccctggtac tgggtatgat tattatagtc agcagcagca acctcagcaa caatctgccc 360
ctgggacagc tgcttctact gatgccacta gctacaatta tggtcagcct tcgacgtatg 420
cttcacaggg atatgatt 438

<210> 35861

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H6

<400> 35861

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cctcagcctc aagggccgag gggccatccc ctactcgag tccctcgteg tcgccgacgt 120
cgccgcgctc agggacggca ccggcacccct caccgtcttc accaacgagc agggcggcgc 180
catcgacgac tccgtcatcg ccaagggtcac cgaccaccac atctacctcg tcgtcaacgc 240
cggatgcaag gacaaggacc tcgcccacat cgaggcgac atggaggcct tcaacaagaa 300
gggcggggac gtcaagtggc acattcacga cgaccgatcg ctgctcgcat tgcagggtcc 360
tcttgtgca cctactctgc agatgctgac gaaagaagat atgagcaaaa tgtacttcag 420
tgacttcaag 430

<210> 35862

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H7

<400> 35862

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ggaaagagag taggtggacg gacggtgctg gcatcgccaa ttcaactccg catctgcac 120
ggcagcgcgc cagctccata ggaggagatg gcgctcacia gaatcggtct tgctggcctt 180
gcggtcatgg ggcagaacct tgccctcaac attgcagaga aagggttccc catctctgtg 240
tacaacagga caacctcaa ggtggacgag accgtgcagc gtgccaaggc agaaggaaac 300
cttcccgtct acggcttcca tgaccccgcg tcctttgtga agtccattca gaagccacgg 360

gtggtgatca tgctcgtcaa ggccggcgcg ccagttgacc agaccatcgc gacgctcgca 420
gctcacttgg agc 433

<210> 35863
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H8

<400> 35863

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gcctgcgaag cttgctccgt tctttcgcct gcttgccctc actcctctat cgccttggcc 120
tgcttattgc ccagacagtt tctgcttgac cccacgattc ttcactgatg attcacagaa 180
agcttggcga gcacgtacat aacttgccga tcggacagtt gatggacggc acgagcccaa 240
accgtacaag tccacaataa tttctccctc cggtccggc tccgctaga ctcaactcgtc 300
catgtcgcgc gccggccgct ccctgcccct gccggtggcg gcgctcctgc tcgcggtggt 360
ggcgtgtgic gcggcgcggc gcgcgcgcgc gatcggcggtg aacttgggca cgc 413

<210> 35864
<211> 204
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H9

<400> 35864

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atgcttcatt taaaataatt taggcaccta ccatttatta tccactaact atttaatacc 120
ctatctcttt atatcctttt cctattctca attcttcacc ttctcttctt cttttaccta 180
ctctataccc tcttttcctt ctac 204

<210> 35865
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A10

<400> 35865

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aaggcatgag gacacccaaa acagcttatg actttgaggt ttcttggaga gctctttctg 120
atgacactgc ccagcaaata cagttactaa agtcgattcc accagcaagc ctaccagaga 180
ttttcaagaa cgactctctt gcaccttttc ttattgacat cgtgaagtgt gcagccttaa 240
tttttccgga tgcggaggca ttagctggca atattttgga taatttggct cgagttccac 300
gcttcgactt gataatcatg tgcctttcat ccatgcacaa aattgaactg aagaagatat 360
gggaacaagt attccttgct gaaaaagcgc ttgctgatga tcggat 406

<210> 35866

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A11

<400> 35866

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gggcccggcca aggagcgacc catccatggc gactaggggt tggctcaccg cctcctgct 120
tggtttctct gtcgccgctt ccccttcac cgcccgagtt gctagagctg aatccgagga 180
agatgctgct gcagctgagg ttgttgaagg ggctgatcta tgtattgtgg gtgatgatac 240
acaggtttcc agtgatggac ctttaagtcc tgctcctggt gtagagacag taattgtctt 300
ccccaaaaat gctggcaaaa ttgtactagc aggtgaagaa actgaattac tagttggtct 360
gcaaaatgac ggtgaatcaa ttttgaa 387

<210> 35867

<211> 217

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-A12

<400> 35867

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caggagagggc ttanggtttc cccgtgcccc gccgccacag tgccaaccca gctctccggt 120
gcgcccgcga cccctgctcc cgtcgacagg gtggcagcgc cgtgcggagt cgactcgccg 180
tccgctggcg ccgtgtgcag ggccgcgggc aagggga 217

<210> 35868

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A2

<400> 35868

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agtcattgttt ggactttaac tttgttttat gttggaaagt acttgaaaga cttttcctgt 120
ggtaattcta ggcgtaggtt gctgtgctgg ttggggttta ctggtgaacc agagtttttc 180
tatoccacta tgaatttggt acctcaagtt acctgg 216

<210> 35869

<211> 314

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-A3

<400> 35869

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gacaccggag ctcccttcgt cggccttcct tgagtgtcaa cccctttctc aaaacttgga 120
tttgcacttc agtccctgcc ggtctgcccc gtcgacgcct cgccggagga agccccctgt 180
ctccttgccc tgcggcgggt tcatgggggt ctcgctgtac cccatgaaga cgtccacgcg 240
gatgctctgg agcactagct tcttccgcca taagctcagc tctgctnct gcttcctctg 300
aggacgcccc accc 314

<210> 35870

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A6

<400> 35870

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gtcacctaca actgcgacgg tcacactttc aattacctcg tggaagacgg attcacatac 120

tgtgttggtg ctgttgaatc ggtggggcaa caaatctcta ttgctttcat ggataggggtt 180

aaggaggatt tcacaaaaag gtatggtggt gggaaagctg ctactgctgc agctaacagc 240

ctcaatcgag agtttggatc aaaacttaaa gaacacatgc agtattgtgt ggatcaccct 300

gaagagggtta gcaagctggc caaagtgaag gcgcaagttt cagaagtcaa ggggtgttatg 360

atggaaaaca ttgaaa 376

<210> 35871

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A7

<400> 35871

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gccgtgaatc tagttttggt tcacgttgtg ttatatatta ccacagtcca cgctgtactc 120

atagtgatca cgcttgagct gtgtcatgga ttctggaaga ccatcattgg ttcaaagcat 180

ttcaatggtg tgctccaatg tgccatgcc tacaaatggg aggtctgggt gcttgctttg 240

caatggcatg atctggcatt aaaaatatta ttcacttata cctgtatttg gtc 293

<210> 35872

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A8

<400> 35872

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gggtcactaa agggtcacct ttaaaagaaa tatcaggtgt caaacgaag caaatcttgc 120

aaaaggtttc aaattaaagc actgttgtag ctcttgagtc caaaccttg aatgaaaacc 180

actggaatta gtcagagcat tacgtctggc atggctaata atcaggtacc ccaacctaata 240

gacttttgaa aagataccct aagtgttaac ccagctggag ataaggagca atctcctgtg 300
acaaccgagc caactactaa cgtactggag gctgatcttg ctcaaccagc acatgatgtt 360
gatgaaaat 369

<210> 35873
<211> 382
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-055-Q1-K1-A9
<400> 35873

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cgcaagcgcc aatctcgccg tcaccacctc aatccagcaa acgcaaacc ccatctcgccg 120
ccgccgcgat gtctcgccgc tatgacagcc gcacgacgat cttctcgccg gaggggcgtc 180
tctaccaggt ggagtacgcg atggaggcga tcggcaacgc cgggtcagcc ctcgggatcc 240
tagcggccga cggcgtggtc ctcgctggcg agaagaaagt gacctncaag ctctncaga 300
cctcgcgctc cgccgagaag atgtacagga tcgactcca cctggcggtgc gccgtggccg 360
ggatcatgtc cgacccaac at 382

<210> 35874
<211> 410
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-054-Q1-K1-H3
<400> 35874

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gcgagcgtgg tgggtggtgc gttccggggc acggagccct tcaacatgcg ggactggtcc 120
acggacgtaa acctgtcgtg gctgggcatg ggcgagctgg gccacgttca cgtcggcttc 180
ctcaaggcgc tgggcctgca ggaggaggac ggcaaggacg ccacgcgggc gttccccaag 240
gccgtcccca acgccgtccc gggcaagccg ctggcctact acgcgctgcg cgaggaggtc 300
cagaagcagc tgcagaagca cccgaacgcc aacgtcgtgg tcaccggcca cagtctcggc 360

gccgcgctgg cgaccatctt cccggcgctg ctggcgcttc acggggagcg 410

<210> 35875

<211> 188

<212> DNA

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<400> 35875

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aggaggggag atggctggta ttgacgatat gccgataagg cctgctcggc cgggcccggc 120

gatgcagcac cgtggtccga ccccgatggc ggccttcgc cccgaaccaa tcgaccgca 180

gaagacct 188

<210> 35876

<211> 348

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-055-Q1-K1-B11

<400> 35876

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catcccgcaa gacggagacc tacaccgaca ccaagcgccg cgacgacgtg cgcggcgcca 180

acatcgccgc tgcgcgcgcc gtcgacgacg ccgtgcgcac ctcggtgggc ccccgaggca 240

tggataagat gatcgcttcg ggcgaccagg ctcaggaggt catcatcacc aatgacggtg 300

ccaccatcct ctcccgcatg gcgctcctnc aggcgcgcgc gcgcatgc 348

<210> 35877

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F9

<400> 35877

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ggtgctgatg aactggagcg aagggatctc ataacttgct gttgctcggc tccgccattc 120
 gctcgtggc tgtgtccgct gcctcagcct tcactctccg ttctagcttg aatggacaat 180
 tgtaagataa cccgactaac tcgacgcttt taagatctct tctaggtaag ctatcgccag 240
 cgattccctg cgggaagaag aacagataag gaacctgtct tgat 284

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G1

<400> 35878

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 gagctcaagg tgaaggagct caagaacggc cgactagcca tgctttccat gttcggcttc 180
 ttcgtccagg ccacgtcac cggcaagggc ccgctcgaga acctcgctga ccacatcgct 240
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 caacggctat gctatgcaac ttcattgact ttcggatcgg agagggtgta cgtacgtgga 360
 ttgattgatg ctgcgagatg catgtgtgtc ttatggttca cgttgcatg cataggcaag 420
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<210> 35879

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G10

<400> 35879

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 ttgttccata cgaagggtgt ggtaatttgg aagagatttc agaagttgaa ggtagatcgg 180
 aaaggatatgc agttcagaaa gacgagagct tgtcagaaat aaggacgcaa ctccctcaga 240
 ttgaaaatca gcaaagcagt ttactggatc ttctccagaa atttatgggg aagtcggaaa 300

acggtatgcg ttctttggag acaagagtgc atgggctgga aatggctttg gatgagatct 360
c 361

<210> 35880
<211> 280
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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tcctgtgggc caacgcctnc agtttcatca acaagtcccc accaaacatt cctgangtga 180
aaatccctga ngatgtgtct gttaatgttg cactgacact gagatacgag atcaacatgg 240
gctttgctac cttgagggag attggacatg gacacgatct 280

<210> 35881
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G2

<400> 35881

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ctgttcgagc gaacgtgcta acatcgacgc tcttctctcc aagttatgct ccgcagatcc 120
tgaggaacag agatcagctg ctgcggagct cgggctcctg gcaaagcgga atgcaaacaa 180
tcgtatctgc attgccgaag ctggtgccat tcccttacta ttgagtctcc tgtcgtcatc 240
taatctgcag acccaggaac atgctgtgac tgcacttctg aacctctcta tacacgaaga 300
taacaagacg agcatcatat catccggtgc cgtcccgggc atagttcatg tcttgaagaa 360
tggaagcatg gaggcacggg agaatgccgc agccaccctt ttcagcctgt ctgtggtcga 420
tgaatacaag gtaacaatc 439

<210> 35882

<211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-054-Q1-K1-G3

 <400> 35882

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 ccatggcaca ctaatgacac cctgagaaga tgcaagaggc ctccaagctt agcgccctacg 180
 atccaaccaa gattaacaaa gctaataacg ttgtcatata atagcctttt gatgaagtag 240
 acaagcttgc agagaagaca caatcactag acatgcactg aaccagctga acataactat 300
 actggacagg acaagaatca tatgaagcag gtgcatcctg agcaaagtat agatgaccgt 360
 gaatataagg atgacac 377

<210> 35883
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-054-Q1-K1-G4

 <400> 35883

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 gagaaagcct gcgagcgatg ggcatcggcg acgtcatctc cgagttctgc tccttgccga 180
 agaactcccg gcatctcaag aagaagaagc agtttcagac gggggagatg aaagtgcgca 240
 ttgactgcga aggggtgccag cgcaagggtga agaacgcggg ggagggcatg aaaggcgtga 300
 gtcctgtgga ggtggcgggc aagcagaaca aggtgacggg cacgggctac gtggacgcca 360
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<210> 35884
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-054-Q1-K1-G5

<400> 35884

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gaagtctctgg agctgtcatt tttctaggca catttgaggc tcttgcggta atgaccatta 180

tatctgtagt tcttggtcga gcattccact atgttgatgg catcattccg ttcagctttg 240

gtggtactga tttcccagtt gatgacattg ctgcggcatg tctcttggtt tattatgggg 300

ttactacatt acttgatgca gcctcagggtg atgatgaaaa gatcaatgat gagcacgagg 360

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gtactattgc tagc 434

<210> 35885

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G6

<400> 35885

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tgggcgcatg accttgatca ccaagaggca atggagcatg catccacaac cacatgccat 120

ggcagtgagg gccctcatac tcaattacaa ctacgtcctg atcgactca tcgtcgacat 180

agtacaccgt gactggcttc ttgattgccg actgtgtgca tgttgatctg cccatgaaaa 240

ccaactacct tgtcgtcgac atcaatacca ctgctaaaca aatcgaggat gcgtacaatg 300

aatttactac gagggatgat atcgctattg tgctcatcag tcaggatatt gccaacatga 360

taaggtgttt ggtgggta 378

<210> 35886

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G7

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ggctcgcaag acctagatca ctagtagaca aggatagcag catccacaaa cacaatccat 120
atcagtgaag gccaacatat acaataacaa ctgcagactg atcataatga tattcgacca 180
gatctccgtg actgacatct tgaaggacga cgatggctac gttgatctga gcaagaaaac 240
caactacatc cacttcgaca aaaatacgac agtttaacaa atacaggatg cgttcaaaga 300
atatactacg atggatgata ttgctattgt gctcatgaac aagtataatg tcaacatcat 360
aaggtgtctg gtggatagc 379

<210> 35887
<211> 120
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G8

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<210> 35888
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-G9

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atattctcta taaatctcaa tattctcaag cccattcttt aacatattat atactttcga 180
atcttactct acaaacctgc tattattgaa aactcattta ttccattact ttatacactt 240
aacttatatt ataataataa gtatttggtc tacattaaat cccaatatgc tttt 294

<210> 35889
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H1

<400> 35889

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gcgacgggat acagcagcag cgcgcccctc tatgcccgcac gcgacggcgc cctgcagctg 120

cagataaacc tgttccaatg gccaaacaaa aagaggggtgt ggacaaaaga actgctagga 180

agacgatccg atctacggaa ggctgtgcaa agagcattac tttcgagagg aacaacaaat 240

cagacgctgt gcagcttcac gatctgccga atgacatcct aggtagcata ctatcacggt 300

tgacattcag agaatcctca cagatggggc ttgtttctca tacctggcgg cggtgtgga 360

gaagctgttg ccggaaactg gtcttcacca gtgccaccat gttccaaccc ggaaatagga 420

gcatcaaaca taaaagac 439

<210> 35890

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H10

<400> 35890

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tgcaattgta gtagagaact gtatcgctcg acgaagggtgc atgggtgttg ccatgggtca 180

cggcagggaa cagagacgag caggtcggcg ctcttcccc agctcattga tcctgtcctc 240

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ggca 304

<210> 35891

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-H11

<400> 35891

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agttgctgca gccgtagtta tcgctggcta cttgtacgag gcttccaaga aggccaagta 180
gagggcgaag ttcttctcca catggctttg ctttagtaag tctgaagatc gaataacagg 240
accatatctg aagatcgaat aacggatcat ataaatgagt tactcggaat atgttctgaa 300
atccttacga acagaacggt gccttcatgt ttacactgta ctcattgagtc acagtgatat 360
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<210> 35892

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-054-Q1-K1-H2

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cagataaacc tgttccaatg gccaaacaaa aagaggggtgt ggacaaaaga actgctagga 180
agacgatccg atctacggaa ggctgtgcaa agagcattac tttcgagagg aacaacaaat 240
catacctgt gcagcttcac gatctgccga atgacatcct aggtagcata ctatcacggt 300
tgacattcag agaatcctca cagatggggc ttgattctca tacctggcgg cggctgtgga 360
gaagctgttg ccggaactg gtcttcacca gtgccaccat gttccaaccc ggaaatatga 420
gcattaaaca ta 432

<210> 35893

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F7

<400> 35893

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gtcttcttca ttgcaccccc ttttaagaat agttggtacc gaactgtcca ttctgtaatt 120
tattataaat tcgtaatta ttacaaatac tgtggttaat aaagaatgtt ccaccagcgt 180
aagactaact acctgccga acctctacg agtacaagac agaagcctca actgaaggat 240

ctgagcctga gcgcctccg gacgacaaga acaggttctg ctttttatag ataccattta 300
 tcactagcta gaatacatat tcacacgcat catctatcac accgcaagct tataattgac 360
 ctcaaagttt acacatgctt gtc 383

<210> 35894
 <211> 173
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E3

<400> 35894

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 gttgggggttg aaaaatagaa cccggtcttt ttggaatccc ttattcctta ccaccatgct 120
 ttctcctttt tggttaaagt cccccaattt tggaaaaatt taccaaataa agg 173

<210> 35895
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-054-Q1-K1-E4

<400> 35895

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 gcgatgcac ttttgctcc tcaaagaaca aagtgatgaa aaggctacat tctgctggaa 120
 aaatgggaga acagtatgat ccatgcactg agaagcattc aactgtatac ttcaatctag 180
 ctgaggttca gaaggcactt catgttaata cagtcattgg aaaatcaaaa tgggagactt 240
 gcagtgaagc tgtaataact cattggggag attgcgaaag atctgtgctg catatctatc 300
 atgaacttat acagtatggc ctccgtatat ggggtgttcag tggagataca gatgcagtga 360
 ttccagtgac ttcaactaga tacagcatcg atgctctcaa gcttncaaca ataactccat 420
 ggcattgctt gtagca 436

<210> 35896
 <211> 290
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E5

<400> 35896

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ctgtatccta tgactttcaa gtatctaggt ccatgtaagc tttttgtggg tgtctgtgtt 180

caactgagac gtttttatcc ggagttgaac atcacaataa agcaaagtca ctgataccat 240

gtaatggaac tctgagcgct tgaaaaaaat gaactcacia taaaaaagaa 290

<210> 35897

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E7

<400> 35897

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acagcagcct gaactgaacc tgcccatgct gacacgcacg aggtccatgc ccagcatcag 120

gctcgccaaa tacgcaaagt ggttcgacga cagctcggag gacatcagga gcctctgcgg 180

gaaggcgctg cagatgctgc gcacgcacta cggctgggag agcgtggacg tcaccgtccc 240

tgagatcgaa gagatgcggc tggcgacta cgtgaccatg ggctcggagt gcaactgcctc 300

cctcgtgcc aagtacctgg acagcatgga caggctccgag gtcgggtggg acgtgcggat 360

cgcgctcagc gcctacgggt ctttcagcag ccgagactac ctcagcgcgc agcgtctccg 420

atgccggcag atgtacttc 439

<210> 35898

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E8

<400> 35898

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acctgtggta cggcccggac cgcgtcaagt accttgcccc cttctccgcc cagacgccct 180
cgtacctgac cggcgagttc cccggcgact acggctggga caccgtcggg ctgtccgcgg 240
acccggaggg gttcgcgcgg aacagggcgc tggaggtgat ccacgggcgg tgggcgatgc 300
tgggtgcgct gggctgcac accccggagg tgctggagaa gtgggtgcgc gtggacttca 360
aggagcccgt gtggttcaag gccggcgcg agatcttctc ggagggcggg ctggactacc 420
tgggcaacct caacctggtg 440

<210> 35899

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E9

<400> 35899

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caggattcaa aatatgctgc tgacctaatc aaaattcttg aaggggcaaa ccaacgaatg 180
ccccgtgatt taaaagatat ggcttcttct gccggtggac gaagtaagaa taagaaccat 240
tgggcatccc cgccttaciaa ggggtggttca cttctgaac tggattcaag gtacagcaac 300
atagatggac tagcatcttt ctggaaatc 329

<210> 35900

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F1

<400> 35900

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attgcttctg tagactagta ccacacagtt tgcgagaagg ggagaggtag aggttccgag 120
gtagagagat agagaggagg agaggaggcg cgaggcggcg gattcgtcac tccgttctta 180
ttcgctgatc tggaggaagg aggcgaggta cgcactgcta tctccttcca gttcgttcga 240

gaagacggtc gttgggtgat tcggcgggcg ctctgttct gtagtaaagt tgtttgcggt 300
 tttgtctctt gtatgattgg tctcttgatc ggaaacagaa gtcccaaaat ctttcttttt 360
 gcttggtcaa gt 372

<210> 35901
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-054-Q1-K1-F10

<400> 35901
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 gtccaactca aaacacagtg cgacctatctt gcctgaagtt gcggggccatg aaggtgaaaa 120
 tttccttttt catcgatgcy atgtacactt atcgtttcta cagagttctt tagtttctag 180
 aattattgca ggggataata agaagaaatg agttaagaaa atatgtaatt tcattctttct 240
 aaatcatcat ggaccaaagc cattataatg agcaataacg gtaaaataaa gagtcaactg 300
 atcagtacat tccaaatctg tattgaatag tttgtaactt aggcctttatc ttttggcang 360
 ttggacacat gtagaaacta ttgattc 387

<210> 35902
 <211> 151
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-054-Q1-K1-F11

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 atttctatt tcatttattc tatctacact t 151

<210> 35903
 <211> 284
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations

<223> Clone ID: LIB3069-054-Q1-K1-F12

<400> 35903

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ccccctccct tcctgtcagt ncgtcttaaa acggttttgc gcacaccttg tcgttctcgg 120
tttctcttctc tgcgggtctg ccagtcctc acggttctct ttttctttcg ggccactctt 180
cggcctctta cttgtctgctc tcggcctttc tgcgcattgc tcctctgttc cccccgtcag 240
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<210> 35904

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F2

<400> 35904

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gatggtgtaa agcagcagtg cccggtaccc caccagggtg cgtgatgcag gcaggggtgg 120
tgctgtctgt gtcgatgccg tcctcctttt ctggcggtggc gctgcatatg accgacgtgt 180
cacggcgctt ttgggtgcgc ggcgcgcgcg cgtcaaaacg tatcaagtac tactactacg 240
tgccgtgccg ggtgttgcgt caaaacgtaa caagtttctc ctttccgttc ttttgtccga 300
gcgagtttac aagtactata ctaccaaagg cgaaagcgaa cccgcaattt tcctatgtag 360
gagtatatac tagtggactg caccaacatc cgtccacgt aaaccatgtg ctttttccga 420
cgtgtatgtt ttatttaatg 440

<210> 35905

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F3

<400> 35905

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tgggtgctgtc tgtatcgatg ccgtcatcct tttctggctt ggcgcttcat atgaccgaca 180
 tgtcacggcg cgtttgggtg ctcagagctc gcgcgtcata acgtatcaag tactactact 240
 acgtgccgtg ccaggtgttg cgtcaaaacg taacaagttt ctcccttccg ttcttttgtc 300
 cgatcgagtt tacaagtact atactaccaa aggcgaaagc gaaccgcgaa ttttcctatg 360
 taagagtata tactagtggg ctgcaccaac atccgggtcca cgtaaccat gtgccttttt 420
 cgacgtgtat gttttattta at 442

<210> 35906
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-054-Q1-K1-F4

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 ctgatgatgt tgcaggaatc atctcatcga aggctggcct caagtatctg ggtcctgatg 180
 ttgatgetat gaaagctgtg gccgatgcct actccaaaag gtctctgaag tacttcgaaa 240
 ctgctctccg tgattacaaa gctcagctgg aagaagatcc tattgtccac aggcaccttt 300
 cctcgtgtga tgacactctc ttggagcaga acctctgcag gctgattgag cctactcaa 360
 ggggtggagat tgctcacata gcagagatga ttgagctgcc aatgaaccat gttgagaaga 420
 agctgtccca gatgatcctc gac 443

<210> 35907
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-054-Q1-K1-F5

<400> 35907
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 gcttaaccgc attcttcaat tgactgggtt cagcgatcct gtgtatgctg aagcatttgt 180

aacagtttac cattatgaca ttgtacttga tggactgtc attaaccgca caaaggagac 240
 acttcacaac ttgtgcttgg aattggctac aatgggagac ctcaaacttg ctgatcgccc 300
 tcagaactac accttggtc ctgagtctag caaacagatc cgtgctaata tcaaggtttc 360
 atgaacagag acggcggtta tatttgcaa catagtttac gagacttcaa atgtgatgga 420
 acgatcagtg 430

<210> 35908
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-054-Q1-K1-F6
 <400> 35908

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 cttctactcc ccaagcccca gcccagcta ccgggcccc tgctgtctgt tccaccagcg 180
 tcggcctagc tacctgcccc gccctctcc gagtaccgtc ggaagcctca gctgaaggat 240
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 actagctaga agacatatc acacgcacga gctatcaa at tgcaagctta gaattggcct 360
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<210> 35909
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-054-Q1-K1-E12
 <400> 35909

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 gccgcgcgc gcctccctgt ctctcccca gcgcctgcca cggtcggagc aggaggcggc 180
 gtgccgttct cgatccaggc gcccaaggag aagatcgaga tgtactcgcc ggccttctat 240
 gccgnctgca ctgccggagg aatcgccagc tgcgggctca cccacatggc cgtcacgcct 300

ctcgacctcg tcaagtgcaa tatgcagatt gacctcagcga aatacaagag tatctcatct 360
ggatttggtgta tcctggtaaa gggagcaggg gccaggggtt tcttcagggg atgggtgcct 420
ac 422

<210> 35910
<211> 423
<212> DNA
<213> Zea mays
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<400> 35910

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caagtgggaa tcaatggaag catgaaccca tgcattccatc caatgggttc tgcagaccca 180
aaatttggtgta gtagtgccac accacagact tttcctcata attatgctgc ctttgctcca 240
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ttctccagca tgcttggttc caggttggtt tcaaaccctg ccattcatgc agctgccagg 360
ctcgagcat catactggcc agcagctgaa ggtaaacactc ctattgatcc gaatcaagaa 420
aac 423

<210> 35911
<211> 366
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-054-Q1-K1-C9
<400> 35911

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catcccgaag catgattata agaaattgct ggtagccgtc tgtcgttcta gaactggtag 180
gccctgggtg gaactcttagt attttaccga tttgaaagaa tgctatggta ttggatgata 240
ctatgggtata gaaagtcaaa aactggttgt ttgtatcagg taaaacgctg tttcgaatac 300
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gacttc

366

<210> 35912

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D1

<400> 35912

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cgcgggcgac aggaggattc catgggagac aacaccggga cggtggcggg cggcatacaag 120

gacgtgccgg tgaacgagaa cgaccttcac ctccaggagc tcgcccatt cgccgtcgat 180

gagcacaaca agaacgcca tgctcttctg gggttcgaga agcttgtgaa ggccaagaca 240

caagtgggtg ctggcacgat gtactatctc actattgaag tgaaggatgg cgaaatcaag 300

aagctctacg aagctaaggt ctgggagaa ccatgggaga acttcaagga gctgcaggaa 360

ttcaagcctg ttgaagagg tgctagcgcc taaggatctc tacttataca tgtgcg 416

<210> 35913

<211> 357

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-054-Q1-K1-D10

<400> 35913

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gtccaaacac atgtctactg gctgaaaata gctcattttg gaggtacatt tgcatacaagc 180

tttgatgaat gctggacaag gatgatatgg gcctccgccc aaagctgtct gggattcaga 240

aacagggtttt ggcgctgtac aggggattcc ttcggacagc acgccttaag gccctgaag 300

aacgccgan gatcgagtct ggtatcttgg cagagttccg tgacaacgca aggagtg 357

<210> 35914

<211> 451

<212> DNA

<213> Zea mays

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<400> 35914

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gggatccgga gtggcttgca aagaaccaca tgggtacagt ttgaagctag tgatattacc 120

taccaccac caacggggta gcaaacggtt tacagtacaa tgcgctgggtg aaatgagtct 180

aacaatcgca ggatagattt atacttgagt ttactgctgc agcgaatacc aaacatgtcg 240

gcactcaaaa aggttttctg gttcttgggtt cttggcagaa aaatgtaact gatctgtaca 300

gaagttttgc aactaatttg gtatccaatg tgggggttga gctgttgctt gtgaacttta 360

gtaccctaga gaatgttagt tccaggatga aactgtttac gcagactcta gctggacctg 420

aatctgtcga tgacaattag ttatcttcta c 451

<210> 35915

<211> 278

<212> DNA

<213> Zea mays

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gagctcgagg cagcgatcgc cgggcacgcc gacttctgcc acgcgctctg caggcgccccg 180

acgccggcca cggccgaacg gctcatcgca acggtgccgc agctgcttcg cggcgcccac 240

gccggcggca aggaagaaaa aaccctggtg gttgttga 278

<210> 35916

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D2

<400> 35916

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 ggtcagagca taagactctc atggggccgt agccctgcaa acaagcagcc tcagcaagag 360
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<210> 35917

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D3

<400> 35917

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<210> 35918

<211> 171

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D4

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<210> 35919

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D5

<400> 35919

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 tccggctggg agccgccggg cagcccagga acgtccggta caccgccgtg ctgaccaacc 360
 cgcaccgtcc gtcgctctac tacgtgaacg tgacggggct cagcgtgggt cggacctggg 420
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<210> 35920

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D6

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 gtcgggtccg acggcacgct caagttcgag gagaaggacg gcatcgacta cgccgccgtc 360
 accgtgcagc tcccgggggg cgagcgcgtg ccgttcctct tcaccgtcaa gcagctcgtc 420
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<210> 35921

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D7

<400> 35921

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 acctacagaa cagttagaaa atgaagctga tgcaagtga agcggcaaaa ctccctctgg 240
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 ggctggttgc atgtcctgtt tgaaggacat agaatccaag aagtggggat gccctatctg 360
 ccgtgccacg attaaccagg ttgttcgcct ctatgctgtt tgaggagttg aaacgggtggg 420
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<210> 35922

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D8

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 gaaacaagaa tcttcaacag ctacatccaa gagctatact ttcagagaag gtgatagggt 300
 gcgttatgtg ggtccagctc agttatcctc attgtcacia aggctcctct ccttttgctg 360
 gcttcgctgt tggaagcgag acatcatgtg gtgtggataa cgtccttgca gagcacgtga 420
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<210> 35923

<211> 276

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-D9

<400> 35923

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aagcaaataa ttggtttaat attataagga gaaaattaag caaccattgg ctttgtaccc 180
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<210> 35924
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-054-Q1-K1-E1
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 cttaaactct gggatattcg atgtggtctg gtaacaaaag aatttcagag aagccttgga 180
 accatccttg acattgactt cagtgtgat ggaagacaat ttatctcttc aactgacaca 240
 accagaagca atattagtga gaacactata attgtttggg atgtcctgcg acaagttcct 300
 ttatctaacc aggtttatac cgaagcattc acatgcccg gtgtaaggta ccaccacgt 360
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<210> 35925
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-054-Q1-K1-E10
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 gttcatgcct acgtactctg ctgcggcaa catgcatcca cgatacaccg tttacgaact 180
 gtgtatacaa ttgctaaaca ccatgcatga ctataaactt tcacacattg gtctagctca 240
 aaatagcccc atccctactg aacttcgcaa cggtttgcaa gatcttattg ggattgggta 300
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<210> 35926
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-054-Q1-K1-E11

 <400> 35926

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 cctggcacca agcgcctttt gtggaaggga aaccgcacc aaaagcaagc tgcgcggtca 180
 gcgatggcgg gacggacgtc atcatcgctg gcgccggggg agctggatct gcgctggcat 240
 acacgctcgg aaaggatggc cgttcgggtg atgtcatcga gagggatctg acagaacctg 300
 acagaattgt gggcgagctg ttgcaacctc ggggttactt gaaattaatt gagctgggcc 360
 tccaagattg tgtggaagaa attgatgcc aacgcgt 397

<210> 35927
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-054-Q1-K1-C7

 <400> 35927

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 cgcagcgtgg cgtaccagcc gtgggtctgg actgcagtca accacgagct ggacttcgcg 180
 ccggatctgt gcgagaccac gccgttcaag cccttcgcgc accggtaccg gacgccgtac 240
 cacgccggcg ggagcacgga gcccttgtgg tactcggtta acgtcgccta cgcgcacgtg 300
 gtcgtgctgg actactactg cgctacggc aagtacacgc cgcactgggc gtggctgcag 360
 gcggagctgg cgcgcgtgga ccggaagacc acgcgcaggc tcgtcgtgct cacgcactcg 420
 ccctggtaca acag 434

<210> 35928
 <211> 440
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B10

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cgccgccgga aagaccacca tcctctacaa gctgaagctc ggcgagatcg tcaccaccat 240
ccccaccatc ggattcaatg ttgaaactgt ggagtacaag aacatcagct tcaactgtctg 300
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<210> 35929

<211> 382

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-054-Q1-K1-B11

<400> 35929

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cggcacctac cgcggccaca acggcgctgt ctggacctgc gacgtctccc gcgactcggc 300
gcgtctcatc accggatccg ccgaccagac cgncaagctc tgggatgtca gcacggngaa 360
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<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B12

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<210> 35931

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B2

<400> 35931

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<210> 35932

<211> 412

<212> DNA

<213> Zea mays

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cgcacccact tccacgaactg cttcgtcagg ggctgcgacg cgtcagtgtt gctcaacgcg 360
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B4

<400> 35933

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ctcgagggtg acagaaccaa cgcgttgaac tgcgctttga ccatgggtatt ctacgagctg 180
cacggtcacg acagatgcga tatgcagaca acttggtgtg agcaca 226

<210> 35934
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B6

<400> 35934

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aaggggtggca cagttttaag agctcaagcg tgggacagtt atggctgcat tgcattcctg 240
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gcacttgtcc gttgattcc 319

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<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B7

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 gaccgcaact gcagcagagg agaggttacc ttggacaacg catcccaggt gtggaagaag 240
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<210> 35936

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B8

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 ttgatcaagg ccttagtcct ggctgagtta cagaggctga tactaaaagc cgaggccaca 360
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<210> 35937

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B9

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atggaagttg acagagtact aaggcctggg ggatattggg tgctatcaag cccacccatt 240
ggctggaaga ttcactataa aggggtggcaa cgttcaaagg aagatcttcg gaatgagcaa 300
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<210> 35938

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-C10

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aaaaatgaca ctgaagatgg cacaacgacc aagtcttcaa acagtcaact gaagagaaag 360
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<210> 35939

<211> 426

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 <211> 204
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-C12

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<210> 35941
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 <212> DNA
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<223> Clone ID: LIB3069-054-Q1-K1-C3

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<210> 35942

<211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-054-Q1-K1-C4

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 aatcaggggt ttcacacata gtttcgtcga tttgaatctg atgtactaat ggactctaata 240
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 attgaggacg ttcgacctgc cggacgcgtg tagaagttcc agtctgctgc ttaactccaac 360
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<210> 35943
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-054-Q1-K1-C5

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 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-C6

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cgctgttgct gacgagctca gatcaaggct ggcgccaac tcgaaccttt gaaatccttg 360
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<210> 35945

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-B1

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actgttgact cacttcagaa cattggtgct gatttggctg tcagagtgtc atcaacttttc 180
cagcttcata atgctctatc tatggaaaac aagcagctga ggatacagat ttctagtctt 240
cagcgtgcaa aactgattaa ggatggtcag acgcaggccc taaagaacga agccgaaagg 300
ttgaagcgga tgtccgtccg ccggagcaga agcgccacgg actactgtta cgaccggggc 360
tcgttctcgt tcggagcaga tgcttcgtca gtcagctggc agatgcctga catggcaagg 420
ctc 423

<210> 35946

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-H1

<400> 35946

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 taagagcact acgaggcett gtacgattga agtcattggg tgagggtaat tcagttaagc 120
 gtcaatctgc aagcactctg cgctgtatgc aaactctatc gcgggtgcag tcacaaatac 180
 gatctaggag agcaaagatg tccgaggaga accaggccct ccaacgccag ctctactta 240
 aacaggaact ggagaatttc agaatgggtg agaactggga cgacagcact caatccaagg 300
 agcaaatcga ggcaagccta ataagcaggc aagaggcagc gataagaaga gaaagaactc 360
 ttgcatatgc attttcacat cagt 384

<210> 35947
 <211> 353
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-053-Q1-K1-H10
 <400> 35947

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 gctgggttat tgtatgcaaa ggcgtcctga accaaattcc cgtcgttatc ttggtgtttg 120
 tttccactct agttggctgg gcagtgaagc aagccaccaa cgtcatccag atgaaaactg 180
 ctgcggaagg atgcgtgggtg tatgatctga agcgcagcaa atgaagcatg aaggcagctt 240
 cacggtttag tatcgacata tccaagggaa aactctgcga gggggcgggc tacgtcttgc 300
 gtgccttgac atctttctga tgatgcgggtc atatgtggga ccaggggatg aca 353

<210> 35948
 <211> 231
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-053-Q1-K1-H2
 <400> 35948

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 taaatttttag tggganaaag gggcaaattt gcaccgtatt accatggcat ggctatatgc 120
 ggaactgttg attgatgagt cgctgtacgg tttgtcgact tgatgatatg ttgatgtggg 180
 agcccctgaa tgaggcggtg ttaatggaaa tataggatgg caatgacaat c 231

<210> 35949
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-053-Q1-K1-H3

 <400> 35949

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 gccactttgt cgccatagac gatattcaat gggaaaaagc ttgaagatat tgttccttca 120
 tcacacaact gtgacattcc gcatgtgaac cgtactgagt atcagctgat tgatatttct 180
 gaggatggat ttctgagcct tcttacttca gatggcaaca ctaaggatga tcttagactc 240
 ccaactgatg agactcttgt ggcccagatt aaggaagggt tcgaaagcgg gaaggatctt 300
 gttgtgactg tccactctgc gatgggggag gagcacatct gcgcgttgaa ggatggttggc 360
 ccca 364

<210> 35950
 <211> 268
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-053-Q1-K1-H4

 <400> 35950

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 actggaatct agaaacattc tattgaatgc gtcgatggct gcaacgtaat cagagcgtag 120
 ctctgggtag tttgggatct gcaaacactc tattgaatgt atcctggact cagcataaat 180
 gatagatata tcggaggatc actatatgat ccacaccacg tgagatggca acactaagga 240
 tgatcttaaa ctcccaaata atgagact 268

<210> 35951
 <211> 112
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-053-Q1-K1-H7

<400> 35951

cccacgcgtn cggaatgatg gatatcgtgt ctatgcaagt ttccaaaagg gaccccatag 60
ctgctttctgt ctctgttgac gggaaagaaa aacctgcna cccctcaag ca 112

<210> 35952

<211> 336

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-054-Q1-K1-A10

<400> 35952

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cggggggtcgt ggaagacgga aggaagcgaa tcaaccgcga ctgtctnca cggaataaaa 120
gcaggcgaag ccagccggtc gcggaacccc caattctcag ctgcggccgg cgatcgagtc 180
ggttccgtcc cgcgccgatg cggatcccgc ggcggaaggg cggggccggg ccgctcgtctg 240
tcgggggtgcc cagcatgcgg gcgcaagtcg ccgcgggtctt cgcgctcgtc gcactgctgg 300
gggtctccgt gctctacgac aacgcccaca ttggcg 336

<210> 35953

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A11

<400> 35953

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ggggacaaca aaaa 74

<210> 35954

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A12

<400> 35954

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 tgggctcgat ttggtagcag atctgcatca aaaagtctcc ttgggcgcgt taggcatgct 120
 tatgatgccc ttccaagcag cgttttttaa acttaaaagc caagatacaa attttctgtg 180
 caacaacgga taagaacata ctttttcaaa ggaataattg aattggtctt gtggattctt 240
 tttggagtct tgtgggacaa gggattgcta attttgataa tgacagccaa aacgggagtg 300
 taaagaagtc agaggatgat gtccctgttc cacctcttct caagacttct gctttgtggg 360
 gtgcattcct tgctgtttct tccaacaca 389

<210> 35955
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A2

<400> 35955

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 caaggcatgc ggaccagga agaagtcggt gacgcggtcc gtcaaggccg ggctgcagtt 180
 ccccgtcggc cggatcgggc gctacctgaa gaagggcccg tacgcgcagc gcgtgggcac 240
 tggcgcccc gtctacctcg ccgtcgtcct ggagtacctc gccgtcgagg ttctggagtt 300
 ggcatggaac gcggcgaaag acaacaagaa gacgcgcata atcccgcgcc acgtgctcct 360
 ggcgatccgc aacgacgagg agctcgggaa gctgctggca ggcgtcacca 410

<210> 35956
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A3

<400> 35956

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 aagtcggacc ggccgtcaag gcggctgcag tcccgtcgcg gatcggcgct acctgaaaag 120
 gccgtacca cgctggcact ggcccccgtc tacctcgcgc cgtctgagta cctgcgcgag 180

ttctggagtt ggcaggaacg cgcgaaagac acagaaacgc gcatatcccc gccactgctc 240
ctgcgatccg acgacgagag ctgggagctg ctgcagc 277

<210> 35957

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A4

<400> 35957

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cagccatggc ggaggagccc gccgttgctg tggcctcctc cagctacgag gttgacctcg 120
ggaacctcat ggcgtacgat ccgtcgcatc acgtcgccac cgccttcagg gaggagctga 180
gacaggagtg cctgcggaag ggtacagagc tggcgcaggc ggtggccgac gtcctcttcg 240
cgctgccgtc caacgaggac cgcgacggcc ccattatcca ctttcgccc tccaccttca 300
gactcccgcg ggagaagcat ctacccaagc ccaagccacc gaccaagtgg gagctgtttg 360
caaaggcgaa aggaattacc aagcgcaaaa agaacaagcg tgagtgggat gagcaaactc 420
aatcctggaa gcggactcat ggc 443

<210> 35958

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A5

<400> 35958

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cgtctttctca gccaccgatg ccaagaggaa tgccaggac tcccatgttc ctatccttgc 120
cccactgcca attgggttcg cgggtgttct ggtccacctt gccaccatcc ccattactgg 180
cactggcatc aaccagcta ggagccttgg cgctgccatc atctacaaca gggatcacgc 240
ctggaacgac cattggatct tctgggtcgg ccccttcatt ggcgctgctc tggctgccat 300
ctaccaccag gtgatcatca gagccatccc gttcaagagc aggtcttaag ctgccgtggc 360
cgtgccgaga catgccagtc cgaagaacgg gcgtcttctt gtgatgtctt cttgtctggc 420

cacgcctagt ttctctgtcg attc

444

<210> 35959

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A6

<400> 35959

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gttgtgttgt taccctacca tacacttttg aacgcacagg actgccatgc tgctatgctt 120

ggccgactat catatgctgt cgagtcctgt atgcagaccc ttgtcggact ccgcattagc 180

gtaacgattc tcaacatact taggatcctg ggcactagac acatgtacat ctggcttaac 240

tcgttgcaca accatagggc cttatagggc gtgaccatga ttgtcgtga tcatactggc 300

acttacgacc agatgggtcat aactgccata cctttctaga gcacgattta cgctgaccag 360

gtcatacttt gacatgccat gatccagaac ggactgttac ctgtgatggc tacttgactg 420

acaacgccta gcatgaat 438

<210> 35960

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A7

<400> 35960

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agaaatggta cctttacaaa ttgttttata gaagtgactt ttcattatta tagtaaagaa 120

tgtgtgtgat ctctatgctt gcttcatttt gatcctgtta ttttgtatta aaaaatccct 180

gtttgagggg aaacaatact taggatcctg ggcattagat tgatgtagtt gtaacttaag 240

tcgattg 247

<210> 35961

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A8

<400> 35961

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attcaaaactc ctggaaagga tgcgagagtt gtcctttctg gtgtaagcct taagtatgga 120
attgatttgt tggaaagtat ccaaagtggc cctaagaaga agagcacaaa gaagtcactc 180
aaggatgttg tcacagagaa tgaatttgaa aaacgtcttc ttccagatgt catccctcca 240
gatgagattg gtgttacctt tgaggatatt ggagcattag aaaatgtcaa ggaaactttg 300
caggagttag ttatgcttcc tttgcaaagg cctgagttgt tctccaaagg acaacttatg 360
aagccatgta aagggatatt gcttttttgt ccacctggca ccggttaagac catgcttgcc 420
aaagctgttg caac 434

<210> 35962

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G9

<400> 35962

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ggctaattgg ttgaagaaga aggctactac tgctactggc tctgatgagg accactcatc 120
ctctccaact cgcagacatg atggtgacaa agcagctgca gatgatgatg acgatgatgt 180
ccagtggcag actgacactt caattgaggc tgccaagcat cgcattgcaag agcagctgag 240
tgcagcaact gctgaaatgg tgatgctgtc gactgaggag actgagaaga agatgaaaca 300
ggcaaccac aaagatggaa gcactaatgg ttcagcaaaa gaaatcccta atgac 355

<210> 35963

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-054-Q1-K1-A9

<400> 35963

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tgaagaaaga agacggaaat atttatgtct tgttgaatgg gatgggtgcc acaccagaag 120
gaaatgttcc attcctcgat ttgtttgata taaatactgn gagtaaagag cgtatatggg 180
agagcgacag ggaaaagtac tatgaaactg ttgttgcact gatgtcagac aaaactgacg 240
gggaactgct ccttgatcag ttaaagatac ttacgtcgaa agaatcaaaa acagaaaaca 300
cacaatatta cttgcagact tggccagaaa agaatacaagt taagataaca aatttcccnc 360
acccatatcc tcagcttgct tcattgnata aggaaatgat aagatc 406

<210> 35964
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-E8

<400> 35964

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atacggttcg tggacgcgag cggccaactg gacgagcaag ggcgcgagtt caaggggatc 120
gtccacaacg gcatcaagat cggtgcggtc ctctccatcg cgcagcacat accgtggctg 180
cgctggctgg ccccggtcga cgagcaggcc ttcaaagccc acggcgaacg gcgcgaccgc 240
ctcaccgtga agatcatgga ggagcacgcc agggccctca agcagcgcgg cgcccagcag 300
catttcgtcg acgcagctct tcactctcag ggacaagtac gacctcagcg atgacaccgt 360
catatgcctc ctctgggaca tgatcaccgg cggcacggac acgacggtga tct 413

<210> 35965
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-E9

<400> 35965

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gtaatccaac cttagtgcga gagtagatct gtgcacttta aagccgaacg tttgtggatc 120
cagaaagaag aaaattttgt atgtatatat gtgtagatcc aggtgatcgc tattgttagc 180
ttttgtttac aatggtcgcc acccaaaaaa gttgttaactc gccctttttt tttttttttt 240

tcaacaagca tgcaaacaaa gtgattatgt ctagatcttt acatagcgcg acaacagttc 300
atgaccaagc aacattacaa gcgtctgata gtgtcactgc ataagcaaac atagtgctaa 360
caacattatt cacaactc 378

<210> 35966
<211> 321
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-F1
<400> 35966

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atcctgcacg gatgaccatg tacatagggg cgttaantat aaagtttggg ccagcacagc 120
cagtgggaac atgaagctgg attctgctta ccatgcagcc aaagagaaag aagagcattg 180
ccctatcttc ttgtttttct cggtaagaac agctcatctc ctttggtttt ttgcttttcc 240
cttcgaggaa aaaaagagta acagtacata gtgggtgttt gatcctttat tagcatgtgc 300
taaggtgttt ccgattttgg t 321

<210> 35967
<211> 355
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-F10
<400> 35967

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gatggggggg atgtcattga ctgtcctgtg caagtgacta aagatggcat actgatatgc 120
atgagctctg ttgacctaat ggatgttact actgttgcaa aatcacaatt tgcttcgcaa 180
gtaactacca tcaacagtct gaaggctggg tctggagtct tcaccttcaa ccttacttgg 240
gatgatattt ctaagaacct aaagcccatg atatcgaacc caatgagcac ctataatctg 300
tacagaaatc ctagaaacaa gaacgcagga aacttcatga gattgtcaga ctttt 355

<210> 35968
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-053-Q1-K1-F11

 <400> 35968

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 accggggcggg ttccgttgcc ggaagggggg ccaaccttaa caagccggtc cttcatccgc 120
 caccatgggg aagaccctg gtatgggagc tgggcgcaag ctcaagaccc accgcagaaa 180
 ccagatgtgg gctgacaaag catacaagaa gagccacttg ggcaatgagt ggaaaaaacc 240
 ttttgetgga tcatctcacg ccaagggcat cgttctggag aagattggta ttgatgccaa 300
 gcagccaaat tctgccatcc gtaagtgtgc ccgcgttcag ctggtgaaaa acggaaagaa 360
 gattgc 366

<210> 35969
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-053-Q1-K1-F3

 <400> 35969

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 ctgacctttt taatttgacc agaactgttg actcagccac gggtttccaa ccaaagggtcc 120
 tgggctcttg gatggagctg accctgccag agggatggga gcaaaaagga agaactcagc 180
 ttgtcaccct gggctcangc aggttctgcg tcgcaagggt catgaatgag atgtttgatc 240
 catacgggag tggatatgtt ttattgaccg gtgtggagat cgttcctcat tttgacaatc 300
 tcaactggtaa tgacngtagt agtggcagt 329

<210> 35970
 <211> 226
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3069-053-Q1-K1-F4

<400> 35970

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gcggctatgg aagacgattt tcagagggca gggggcccca cctctaacna ccttgactat 120
tacgcgaaat ccatttcgt gtcatacgca ctgtcctttc gcgttaaagt ataatttttc 180
caagggtccc ctctctttga cgatcccaga tcacgtccgc ttcctt 226

<210> 35971

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-F5

<400> 35971

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gatagttgag tgggagacgg gcgagaggct gccgtgtagg gaccgtagac tcagcgactg 120
cgaaggaggg ataaggggat ggccgggata ggaccgatca ggcaggactg ggagccgggtc 180
gttgtgcgga agaaggcacc caccgccgcc gccagaagg atgagaaggc cgtcaacgcc 240
gcgcgccg cggtgcgga gatcgatacc atgaagaagt acaacgctgg tacgaacaag 300
gcggcatcca gcggtacatc cctcaacacc aagcgctctg acgacgacac cgaaaacctc 360
gcccattgagc gagttccaag tgatctg 387

<210> 35972

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-F7

<400> 35972

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ggcacattca ggccccgatg gcgacgacgg ctacgaaccg gcgggtgatc ctcaaggagt 120
acgtggaggg ataccacgc gaggagcaca tggagctgct ccggggcgcc gaggttcccc 180
tccgcctgac gggcgccgag ccggccgggt ccgtctctgt caggaacctc tacctcttct 240

gcgaccccta catgcgggccc aagatgtcgc gcccgctgcg ggagttctac acggggcgcc 300
tcgttccggg cgacaccatc acgggctact gcgtcgcgcg cgt 343

<210> 35973
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-F9

<400> 35973

cttatacaact cattattaaa tcatttttcta gtaaacaatca ttaaataagct cttaggggga 60
gccatatgag tgtgtgtgcg ggacaccaga ttataactca tcctcctact tgacatccaa 120
atacaacttta tacagactcc cctctcacat ttcaaacaat caaaaacat acggttcccc 180
ccctaataata ttccaaaat cacgtacccg ttcata 216

<210> 35974
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G1

<400> 35974

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gttaatggcg gtgcaatggc tcttgacat cctttgggtg ctacaggtgc acggtgcgtc 120
agtactcttc tcaatgagat gaagcgccgc ggcaaggatt gccggttcg agtgatttct 180
atgtgcatag gttctgggat gggtgccgct gctgtgttcg agcggtgaga cggcgttgat 240
gagctcacca atgctcgggg aatctc 266

<210> 35975
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G10

<400> 35975

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ctttgtgaga ggatcactgt cagtatttgc gttatcaaat tcttcgtggc ttgaagtata 120
 tacattcage aaatgttctt caccgtgact tgaagcctag caatcttctt ttgaatgcaa 180
 actgtgacct caagatatgt gattttgggc ttgctcgac cacctcagaa actgatttta 240
 tgactgaata tgttgtcaca agatgggtata gagcaccaga gcttttgttg aactcctcag 300
 aatatactgc tgccatcgat gtgtgggtctg tgggctgtat atttatggaa ctgatggacc 360
 gcaaaccctt gtttcctgga agagaccatg tccatcagct acgtcttcta atggagctca 420

<210> 35976

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G11

<400> 35976

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 gctgggtatca tcatgggtcaa caaagcctta atggcgacgc atggcttttag tttcgctaca 120
 acgttgaccg gacttcattt cgcgatgacg accttgatga cattagtaat gaaatgactg 180
 ggatatattc acccgtccta tctatccgta cctgaactaa ta 222

<210> 35977

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G3

<400> 35977

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 acctgatgga gggaagtccg tcagctcggt cccaaaccaa ggggtgtttct cacagttctt 180
 tgaggggtctg gattggatga tccgccttc ctgctaccaa gactccaatg gcatccattc 240
 agttaccgca tcggatagca tctttaatcc gtctgaaggt atacctcctt ccacaatgaa 300
 cgcggaacgc atggacgcgt tccaaacttc ctgcctttcc gagggtcttc ctaattccat 360
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<210> 35978
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-053-Q1-K1-G4

 <400> 35978

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 gggcgccgct tccccaggc cctcgcggt cgccaccctc tccagcgct gcgccggcgc 180
 ccgtcccg cgcgtccttg ctggccacac ggactcaatc cttgaggtgc tggcacagga 240
 cgatatgctg aacgcaaagg agctgttcca atgggagaat ggcttgtcat tcaatgacat 300
 accggetacg caggggattc gcatacgcat aactgtcag cccactgcct tcttgaagga 360
 tatagaggag gagctgtgac ccccccttaa cattctagag catatcattt t 411

<210> 35979
 <211> 298
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-053-Q1-K1-G5

 <400> 35979

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 ggacctatta cctggtaggg ggcttccaca ggacttctc tgtgcaatta aggcagcaga 120
 ttacagctct gcaacaacaa agattaatgt ggctgtcgac agactgccac agttccagtg 180
 ttgcaacacc aatcttgaat gttgtccaga gcacatgggc acaatacaca ttgggtccga 240
 aagcatggag gaaattgacg ttgcatacac ggaagcagca gacggcatct ctttcaaa 298

<210> 35980
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-053-Q1-K1-G6

 <400> 35980

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ctccttccgc cggaatcgct gctcctctct gtgctgtcga tttgtgcggc gactgttagt 180
ttggttcggg cccatccttc tgttgatcaa tgggtgacgg tgaggatata cagccacttg 240
tgtgtgacaa tggcactgga atgggtcaagg ctggccttgc tgggtgatgat gcgcccagag 300
cagtgttccc tagtatagtc ggccgccttc ggcacacggg tgtgatgggt ggaat 355

<210> 35981

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-E7

<400> 35981

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gccggcgatg gcggctccca tggctgacgc cgaatacctg cgccaggctc acagggcgcg 180
ccgccacctc cgcgcctca tctccaacaa gggatgcgcc ccgatcatgc tccgcctcgc 240
atggcatgat gctggaactt atgacctgaa gacaaaaact ggtggtgcaa atggttcgat 300
tagatatgaa gaagagtaca ctcatggttc aaatgctggg ttaaagattg ctatcgatct 360

<210> 35982

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G7

<400> 35982

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cgagtacatc aagaagggga ttgaggccga tgacatggaa gctctgtaca agaaggcca 180
tgctgccatc cgtgctgatc ctagcatggc caagtcaaca aaggcgcaac caaaggagca 240
caagaggcac aacccaaga agttgacctg tgagcagagg aaggccagac tcgtggaaag 300

gctcaatgcc ctcaattcct cgggtggtgt cgatgatgat gaggatgacg aatgaagtgc 360
tagtcg 366

<210> 35983
<211> 218
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-C11

<400> 35983

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agcgcgtcgg cgggtggtgcg cccgtctacc tctccgccgt cctcgagtat ctgcgcgcag 120
aggtgttgga actggcgggc aacgcggcgc ggcacaacaa gaagaaccgc atcgtgccgc 180
gtcacatnca gctcgccgtg cgcaacgacg aggaactc 218

<210> 35984
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-C4

<400> 35984

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gcagttatat aacattatgg gcttccagtt ttggcatctt ctattgtgtt aagaaaactt 120
cattttaact gacaaagtgt catcttacta tttagtttgc taaagggatg ttactcatgg 180
ttagtccaca atattttaca tttttacata tcttgtagct cttcactttc aggtttctta 240
aggaactaga cttacaaaag agttgtgtga aacatcaaga ccatcagtgg attaatgttt 300
ttcccaagtc ttcaacatca ctagaatgct tgaatttttc ctgcttgact ggggaggtga 360
atgcttgtgc actggaggaa cttgttgcaa ggagtcacaa tcttaaa 407

<210> 35985
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-C5

<400> 35985

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tcaaagatac gagggctttt tctcgccatg tctcggtcgc cacacctccc acccgctgc 180
ccacccttgg gtcctcagat cactcgaag gatgacagca tgttcacgca gagctgcagg 240
tttccatctg gggatacgtt ctttagtgag ccaccgtgct ggctcgatga tctccttgca 300
gattccggga aaagctccaa gc 322

<210> 35986

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-C7

<400> 35986

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agtatgtttc ctgttattga tccacggcaa gtaatctcca ttcaggaaca tgagtatgtt 120
tattgcctgg caatcgtcaa gagcatgaag ctcaacatta ttggacaaaa tttcatgact 180
ggctctcgtg ttgtgttcga tcgggaaaag aaaattcttg gatggaagaa atttaattgt 240
ttctcacctt caacatctga gaactactct ccgcaggaag caaggaaccc agctggtgtt 300
tcccagttga gaccactgaa caattcatca ccagcagcgt tatatgat 348

<210> 35987

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-C8

<400> 35987

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ttatgtgaac gtggaggtgg tgggcgtgga cacgcgaccg gacatcgaaa gagcagtctc 120
gtttagggag aagccgagga cgagcatggc gccgcgcgcg ctgccgacga cgcgagatgg 180

acggaagagc ttggaggcag cgccgtacca cgatgtcctt gacctgaagc agctgctcga 240
tctggctgac aaggaaggcc ggggtggccgt gtatgggaac aaaaggaact ccgacaccag 300
cagcgtgagc agcgtcagta gcagcagcag cggcggcaca accagcatca gcagcgctag 360
caccatcggg ggcgcgagcc 380

<210> 35988
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-C9

<400> 35988

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tttttttaac atgttagtga gccaccccaa ctcatctcca ttcattaaca tattattttt 120
attttctttc aatcttcaat atcattaatc tcaacaaaaa aaacaaaatt tcataactat 180
tcttctttta aaatcccacc gttaaaccaa aattattcaa cccacacatt taatcaaaaa 240
tcaccttcat catctaaaaa ctactttaaa caccaaaca cgaaccccc taaaaattcc 300
caaatgacac cactgaacaa tt 322

<210> 35989
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-D1

<400> 35989

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cattataaat caatgggagc aaaggaaagg aaaggaaagg aaaggagaa aatttcatat 120
agcaattgtt tcgcgtatag gagggagaac aaaggtcgcg tctcgaaagt tcttgcttg 180
ttgggaaggg atggcgtcgg aggtggagga cgacgcggcg gtgccggcg cgccgctggt 240
cgccaatggt gcagccgacg tccgccggag gagggatcag gcgaaggcga ttttgtccaa 300
gcaggccgtc aagatcgcca ccaatgccga gcagcacgag cgcttcatct ttaaggtcac 360
aca 363

<210> 35990
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-053-Q1-K1-D2

 <400> 35990

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 gtggccggag ccggtggtgg cggggactct ctgctgaaga gatcgtccag catgagagac 120
 gccccggcga tcggccgcgg ctctcggcc ggtgcgggcg ggtgcgcggc gcatcatccg 180
 ccgtcgttct cgagccggtg cgcggggctg gtgaatgagc atcgggcgcg cttctacatc 240
 atgcgcgcgt gcgtgaccat gctcgtctgc tggaaggacc gctcgt 286

<210> 35991
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-053-Q1-K1-D3

 <400> 35991

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 atcgccgcca cctcttcgag cagaatagtt gagaatggct gacgaggata tccagcctat 180
 cgtatgtgac aatggcactg gaatgggtcaa ggccggtttc gctggtgatg atgcgccaag 240
 agctgtcttc ccagcattg tgggaagacc acgccacacc ggtgtcatgg tcggcatggg 300
 ccaaaaggat gcctacgtag gtgatgaggc tcaagccaag agaggcatcc tgacactgaa 360
 gtacccgatt gagcatggca ttgtcaacaa ctgggatgac atggagaaaa tctggca 417

<210> 35992
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-053-Q1-K1-D5

 <400> 35992

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cgccaccaat ggccactgcc gaggtccaga ccccgaccgt cgtggcggcc gaggaagcgc 180
ccgtgggtgga gaccccgccg ccggccgctcg tgcccgaaga gtctgcccc gccgaggccg 240
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aggcagccgc cgaggcggag gccgcggctc ctgctggtgc cgaggagccc gtcgcggccg 360
aacc 364

<210> 35993
<211> 318
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-053-Q1-K1-D7
<400> 35993

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ggttttctcc tgtgcgctca tggtctttgt tagttttgtg gctgccggac gacccatggt 180
gtcgcgcgac gccatcgctt ttcacgtggc gaacaagtgc ccgttcccgg tgtggccggc 240
gtccgcccct aacaccggcc acccggtgct cgctggcggg ggctttctatc gtcccgcagg 300
caagtcgagg cgcgtcgt 318

<210> 35994
<211> 356
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-D8
<400> 35994

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ctcattgtcg caggatgccg gcgcncctt agcaccacca gcccaggac gaagaggacg 120
acgataccgc aggcgttgct aagctcatca gcgccgaggg cttcgaattc gttgctgaca 180

ggaaggccga catggtctcc aacaccctcc gcaacatgct cacatcccca ggcgggttct 240
 ctgagacgcg ccagggcgag gtccgcttcc cagagatccc caccaacatc ctcgagaaga 300
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<210> 35995

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-D9

<400> 35995

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 taattattac atgccgggggt ggcctctact aacactcaca accctttctc ttaaacaatct 120
 atgtatacaa atgtacgcta attgctcatt atatcacatt tcttggtata ccacccatgg 180
 cgctagecaa caccatctca tataacctct cgaacatgct cccattccca gtttggttctt 240
 ctaaaaaacac taacaccgac ccccc 265

<210> 35996

<211> 341

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-053-Q1-K1-E1

<400> 35996

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 agaaagatag tgccttagtc ttggtagatg ctaaaaatgc tgaggttga aagttgaggg 180
 atgaactgaa gaagctcaac agttccatgg ctgcgctccg tgctctctat gatgatcttg 240
 atggaaagtc ttctttcctc cacgatgaga aagtttcggt tctcaaagaa cttgagcagg 300
 agaaagctga agcagaaaag ctgaagtcca aaatccagga g 341

<210> 35997

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-E11

<400> 35997

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aatggatcct aggaagttcc gtccgtccag tagccacgac acgacggtga cgacgactaa 120
cgcgggcgct cctgtgtgga acgacaacga ggcgctgact gtggggcctc gcggtcccat 180
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ggagcgcggtg gtgcacgcgc gcggggcctc cgccaagggc ttcttcgagt gcacccacga 300
cgtgacgtcg ctgacgtgcg ccgacttcct gcgcgcgcc ggctgcgga cgcctgtgat 360
cgtgcgcttc tcgacggtga tccacgagcg ggggtccccg gag 403

<210> 35998

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-E4

<400> 35998

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cagaaagctg ccgccttggg gcaatgtggt gtgaactgct gatccagatt gtgactetta 180
tctgaagagg ctacgcaaaa gatctgcccc ctcgtgtaaa tacctgaggg ggctagatgg 240
gaattttttg ctgtatatta ggacccatct acaaccttt 279

<210> 35999

<211> 324

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-053-Q1-K1-C1

<400> 35999

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atattttttct tttcatcctc cattatttcct actattaatt ccaactaaat ctccctctcc 180
ccctatgaag aattcaacat ttataatttg cacctttttt aatcttataa aaaaaatattc 240
aagcaatagt attaacgcaa agataatcat gtttaaatac acaagaaaaat ttattactct 300
atacaattta attcttctcc catc 324

<210> 36000

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-H10

<400> 36000

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aggtactccc agagctcttc atctccattt ccacggctca ggtaatccat ggattccatt 180
tccacgctgg cctctattgc ttcgttctcc tccacagaaa ggatgcaccg ccagaaatgg 240
agtcccccca gaactggatg accaagctct tgattggccc tcgccggaaa tggagtcccc 300
ccaggcgcaa ccaaccttat ccctctcaac gagatagttg tcgacatcaa tggaacat 358

<210> 36001

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-H11

<400> 36001

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ccaatcgggc gcggcggcta accaatcctg ccccttccca ggcactctca ccgtcccttc 120
gccttattca ttggcctggg cccgtccctc ccaccactt acaggtgggc cctaatcgtg 180
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gtttgcccggt tgccgatccg ttccgtttca gttgcccggt tgagcgaggg gaacgggtacg 300
ccgccggcgc cgctgctgcg acgcgtgctc gcgccgccac ccgacgacga cctgggtccga 360
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<210> 36002
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-H12

<400> 36002

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gaaggaaaag cattcgcaga gagggagtca ttgtatttca tggagacctc tgcactcgag 120
tcgactaacg ttgaaaatgc attcgcagag gtcttaactc agatctaccg tattgtgagc 180
aagagagcag ttgaagcagg cgaagatgca gcatctgggc ctggcaaggg cgagaagatt 240
aacataaagg atgatgtttc ggcggtgaag aagggtggct gctgctctag ctgagctgcc 300
ctgctgtatt ttttgaagtt gtggtgatgt agcttatg 338

<210> 36003
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-H2

<400> 36003

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tttgtcgtaa aggagccctt agtcgcggcc tectgcctca tcgctggatt cggctctctt 180
cttgcattgag ttgtgcggcc aatcctggaa gcatggtaga ccgtgtaaca agtttcttct 240
tctcttctaa atgatgtggg tgcattgtgc accggcgaga aaaagtagtg aacttgcatt 300
gttttctcat gccaatggtg cccacatctt tcttccccgt ggtttttctg gc 352

<210> 36004
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-H3

<400> 36004

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cctcatgctt ccccgatatc gcagtcgcct atgcttgaca gctagctgca tagagtcatt 180
gtgcttgtct gtcagccata acatattttc aagactgaag tttggaccat aactggagta 240
tgaactcatc catccaacaa gcatctgagc tatctattat tgtggatgaa gcagcaacat 300
tgattcgaat ttgcatatca tctgcgagtg aatttttttc tctcttgta ttgcttacat 360
tttagctgga ct 372

<210> 36005
<211> 124
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-052-Q1-K1-H6
<400> 36005

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cgtgtatgct gtcataaggt agctggacgc caaccagctc gccgaggcgg acgagttcga 120
ggac 124

<210> 36006
<211> 325
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-052-Q1-K1-H8
<400> 36006

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ggttaccttc accatgactg cagcccacga ataattcacc gggacgtaaa atcaaagaat 120
atactcctcg acaaagatta ggaagcccat cttacagact atagcatcgc taagagctta 180
tgtgagtcga agactttcac gtctacctac gtcgtgtgca ctattggta cattgatccc 240
gaatacgccc gcaccttccg gcttaacgag aagtctgatg tctacagcta cggcatcggt 300
ctgctggagc tgctgaccgg gaaga 325

<210> 36007

<211> 386
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-052-Q1-K1-H9

 <400> 36007

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 ctgacaggat caatggcgag acaccagaag agattcgcaa gaccttcaat atcaagaatg 120
 acttcacccc tgaggaggaa gaggagatcc gcagggagaa ccagtgggcc ttcgagtaag 180
 gaggtgctgg atctattgat gcctaagttt ggtgggtgtct actactatgt ctactttatg 240
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 cttatgtggg caatggtcgg ttattaactt attaccatga aagcacttcg tctgctgccc 360
 taagagggttt agtcccatth gcatta 386

<210> 36008
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-053-Q1-K1-A5

 <400> 36008

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 ggggagggcg tgcacgcagg tcacgcggcg atggacatat gcgatgtttg agcagggcgg 120
 ggcagatttc tgctggcatg cgaggggaagt agtgtcgtca gggatggggc tctgggggtg 180
 gccgtggggg cgacgtgggc cgtcgggctt cggctccgcg tccaccgccg aggaggtcac 240
 cgccggcgtc gacgcaagca acatcactgc catcgtcaca ggagcgacga atggcattgg 300
 aaaagagaca gccagagttc tagcactgag gggagccaag gtaatcatac cagctaggac 360
 actg 364

<210> 36009
 <211> 103
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-053-Q1-K1-A6

<400> 36009
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 aaaaaaaaaa aaaaaagaag tttttaaaaa aaaagggggc ccc 103

<210> 36010
 <211> 359
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-053-Q1-K1-A9

<400> 36010
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 ntctctaagg atgacagtgt gattcttgat ggcgctggaa acaaaaagtc tattgaagag 120
 agggcagacc agattagatc agcagttgag aacagcactt cagattatga caaggaaaag 180
 ctccaggaac ggttggcaaa gctctctgga ggtggtgctg ttctgaagat tggaggagcc 240
 accgaagcag aagttggtga gaagaaggat agagtgcag atgcactgaa tgctactaaa 300
 gctgctggtg aagaaggcat tgtaccacgt ggtggtggtg ctcttctcct atgcattga 359

<210> 36011
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-B10

<400> 36011
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 atcatatctg ctgcagaatt ggcaaagtct cacaagttta tcagttcggc gctgcagggg 120
 tatgacacag tggttggaga gcgtggagcc cagttgtcaa gagggcagaa gcagcgagtg 180
 gcgatcgccc gtgcaattgt gaaggaccct aggatcctgc ttctggacga agcgactagt 240
 gcgctggatg ctgaatccga acggatcgct caggacgcac tggacagggt gat 293

<210> 36012
 <211> 373
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-B4

<400> 36012

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gccattcacc ccacttgccg ctagcanatc tagttaaatt tgtgatattt tcgaacttgt 120
caattgttgg gatgaatgtg agcttgatgt ggaactctgt gggcttttat cagatagcaa 180
agctgtgcat gataacctga tcatgtcttc tggagggtgt ctttgatcat gtgcattatt 240
cccgggacac aaagctgagc ataatggctg tgcttatagg agttgcagtc tgcacagtta 300
ctgatgtcag tgtgaatgca agaggctcaa tcgccgctgt tatagctgtt tggagcacag 360
ctttgcaaca ata 373

<210> 36013
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-B5

<400> 36013

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cgggcctatg tgctggagca cccgtacaat ttctgcatct gctggcggag gagcttattg 120
taatgggcaa aagattcatg tcagtcagac agacaagggtg gaacaatcac ttctcgtcac 180
aggttttgga tatgaacacg atgatgcctg gacgaccaat atgaatctgt tcaaggaatt 240
tactgacatt agcaggggag tgcgaaggct agggctctgct gctgctgaca tgtcccacat 300
tggacttggt attacagaag cttactggga ataccgactt aagccatggg atat 354

<210> 36014
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-B6

<400> 36014

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gatctctgtg ctgcttacia gtggaaatga aactgctgaa aaagagctaa aaaaggcgtc 120
agcaataaaa cgccccaatg gtttgggtctt tgaagattcc tataacaacc ttttgccccc 180
acatgggtggg aatataaatg gtggctggcc ggaggggaaa aaaacctgaa gtggtgagca 240
tgtccttcat gaatgtgata atgtgggtaa aattcttgcc tcaaaaaggt tttcatcctt 300
gtcgactgag tctaattgggc ctactgggtcc ctctgaaggg aaaaccctc caagaattgg 360
aaatgggtggc cacatgac 378

<210> 36015
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-B7

<400> 36015

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ggcagtaacg ccgacgcgtg cagcagcaag cgcggtgtgg ccgggtcaca gccggcggca 120
agccagacca aggtgagcgc gcagaaggag gaggagatgc tgaagctgtt cgagcagagg 180
aagaaggacc tggagaagct gctggacatc tacgagcagc gcctggagga ggccacgttc 240
ctggccggcg acaacttcac catcgccgac ctgtcgcacc tgccctacgc ggaccacctc 300
gtcttcgacc cgcgctcccg ccgcatgttc gagtcccgca agaacgtcag caggtggtgg 360
cacga 365

<210> 36016
<211> 366
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-053-Q1-K1-B8

<400> 36016

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ngaaccctac ccgtgagaag cgccgccccca caaccccgga cgtggtggca agcgaccgat 120
ccggatccat catcccaagc ttcctttctg tctcctcttc atccatctcc acaaggataa 180
tcaaagaaag aaggccatgg ttttgttcga acttgaccgc gacatcatcc gatgggggtct 240

tcaccatctc ctccccgctc cggctggata ctctctcat tgcgcaccc aaaccacccc 300
taccacacct tgtacagctt ttgctcgccc tcctcatcag cccatcggag acatgggtac 360
ctcaag 366

<210> 36017
<211> 321
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-052-Q1-K1-H1
<400> 36017

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cgacggcgccc cttagcatcc tttgtgtgat actgttcttg cactgccagg ccgtgcccgt 120
tcccactggg gatggcgagt atctcaacta gaccttaccg acaacagagt gcgaaagcaa 180
gtgaggggtgc gcgcacgtca gaaaagagcc aaggagaaat caaatggccc aaaaaagaac 240
aagaatatat ctgccatcgc cttttgaacc ttgccctacg accaaaacct gacgcctact 300
ctctctgttc atgctctttc t 321

<210> 36018
<211> 83
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-052-Q1-K1-E3
<400> 36018

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aggaaaaaaa aaaagaggag aag 83

<210> 36019
<211> 391
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-052-Q1-K1-E5
<400> 36019

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 gcgaaagcaa agcgggatgt tggggatgca gaatacaaga gcatgctgtg tgtggagcct 120
 gcagatgttg aaaggccgat tactgtgaaa cctgaggatt agtggaagg aaggcttgtg 180
 cttgtagatg ggtcatcgag ttactgtatg gtacagttag attcattgaa tgttcttcag 240
 gggtgaaaat cctcactttc tgcattctgt acagaagttc attgccctta atatttgatg 300
 ctgggctggc gtcaacgccg catgttcctt ttgccattcc cacccttat atttttggta 360
 ctttttggat ctagaatttg agttataggt t 391

<210> 36020
 <211> 110
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-E6

<400> 36020

aaagaaaaaa aaaaaaaaaa aaaaaaaaaa ttaaaaaaga ggaaagaaaa aagagaaaaa 60
 gggagaaaaa aaagaaagga caaggaaaag gacgaaaaaa aaaaaggaaa 110

<210> 36021
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-E7

<400> 36021

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 ggggggacgc gtgggcttgg atgaggatat tgccagtcca gctagtggag caagaaagaa 120
 acgagcatgc aacactagta ctgcaacaaa gccctatgtt gaagattatg aggggaatgt 180
 ggggaacttt gcaatctaata agtgctactg caaaaatggg tctacaggga aaattaagga 240
 cagagtccat caagaatgcg atgaatctgg ttaagaaatg tgggtcacca gaaggaagtg 300
 ttgagcatta catggctaca aaattgttca tgaaagctga aaactgagat atgttcttta 360
 cttttgaatc aaatgaagga aggttatctt ggttaaagag aaattgtcag gactatgggt 420
 tgaat 425

<210> 36022
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-052-Q1-K1-E8

 <400> 36022

 cggaacgcgtg ggcttgactg ggctggtggt gctgtacggt cggaacaagc ggctgcagga 60
 gctggtgaac ctctggtgctg tctgcggcga ccatggcaac ccttccaagg acaaggagga 120
 gcaggccgag ttcaagaaga tggttgacct catcgagcag tacaacctga acgggcacat 180
 ccgatggatc tccgcccaga tgaaccgcgt cctgaacggc gagctgtacc gctacatctg 240
 cgacaccaag ggcgcccttcg tgcagcctgc tttctacgag gctttcgggc tgacggtggt 300
 tgaggccatg acctgcgggc tgcccacggt tgccacagcc tacggcggtc cggccgagat 360
 catcgtgcac ggcggtgtctg gctaccacat cgacccttac caaggcgac 409

<210> 36023
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-052-Q1-K1-F1

 <400> 36023

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 atgagtaggg tgcagtctga gtgtggctag gatgccatct cccagattgt tggggaatcc 120
 aaggagaaga ataggaagat tactgatatc tgaggaaact tatattgtgc tgaacaatta 180
 tgatccacag aagggaatg cgtgtcagtg gcgtctgatt atttgcccca tattccttcg 240
 tccaagatga aagtgtgcat gcttggtgat gccagcatg ttgaggaggc cgagaagatg 300
 ggacttgact acatggatgt tgaggctctc aagaaaatga acaagaacta gaagc 355

<210> 36024
 <211> 223
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-052-Q1-K1-F12

<400> 36024

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acagaggagg ttgaggctca tatctcacac ctatcaacaa aattttactt ttcccgtttt 120
atatttttct aattattgcc acccctctat tatggtatat caaatagtag cagtttagcaa 180
accttccatt ccaacataat atcttcagaa atattacacc aaa 223

<210> 36025

<211> 145

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-052-Q1-K1-F2

<400> 36025

agcgtacgga gatacagaag atcgtatcac cacctttttt ttcattttga gcantgtgtg 60
tatcagttag ttttggggag tgacataata tggatgaatgt ggatagagaa aagaaggaaa 120
caattgaaac caatcctagg gaaat 145

<210> 36026

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-F5

<400> 36026

gcgcggaacg gtgggcggac gcgtgttccg gtgtcgatgg ccacggagcc gttggcgcg 60
ttgggggttga tggatgaagcg gtcggtgttg ctgaactcgg tggccagcgt gtgctggacg 120
gggttcacga tcgactccag cgacctcagc gggtagtagg agtggagcac gtggaagcgg 180
agcaccacgg ccttgctgtc gttgatgagc gacttgagcc gtgcccccat cgtgaggccc 240
gcgaaggcgt cgtcggtcgg cgccaacacc gtgatcccgg ccccgcgctc gtcgtcctcg 300
aactcggccg tcacgcccga cgctgcagc atggacgccg tcacgttgaa agcgcgcgcg 360
tcggcgagga cgcggtgat gttcacg 387

<210> 36027

<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-F6

<400> 36027

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gggatgggta tcgacctcgt tgccgggtggg aggaacaaga agaccaagcg cacagcgccg 120
aagtccgacg atgtttatct caagctcctt gtcaagctct accgtttctt ggtcaggagg 180
accaagagca acttcagtgc tgtgattctc aataggctct tcatgagcaa aaccaatcgc 240
ccaccaatct ccatgcgccg ccttgtcaag ttcattggaag gaaaggagaa gaacattgct 300
gtgattgttg gcacagtcac agatgacaag aggatccaag aggttccagc aatgaaagtt 360
actgccctga ggttcaccca gacggcaagg gccaggattg tcaatgctgg tggggga 417

<210> 36028
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-F7

<400> 36028

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tttggtgtgc aagcagcaca gcaagggatg gtgtacatag acgaggttga taagatcaca 120
aaaaaggctg aaagtcttaa catcatcaga gacgtatctg gtgaagggtg tcagcaggca 180
ttgctgaaaa tgctggaagg cacgatagtc aacgttctctg aaaaaggagc aaggaagcat 240
cctcgtgggtg ataataataca gatagatacc aaagatattc tttttatatg tgggtggcgt 300
ttcgtggatt tggagaaaac tatatcggag agacggcagg attcttctat tggcttcggc 360
gcaccagttc gtgcaaacat gagggtcggt ggcactttaa gtgctcaagt gacatcgtcc 420
ttggtggaat cg 432

<210> 36029
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-G1

<400> 36029

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ggcagtaagg ctggatgatg agttgaggag tgaggatgtg tcatgttggt gtgtgcaccg 120
agtataatgg aattgtctag tgttttttga ctagtccgaa tgatgagtgc ttagctgtgt 180
gatccgactc agagtccccct gtgctgactc tgggtcatgg atgggtccatt ttatcttgtg 240
ggattatcag ccttta 256

<210> 36030

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-G10

<400> 36030

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tggtgtggtg catatgggtg gaccaagcat gaggcaggaa ctgcattact tgcaagaaag 120
tcacaaaatc cattgcaaga tcatacttgt ggctttcttg caagttgctc aattgttgcc 180
tcaagcttgc tgcctccctt tgccagagct atcggtaaaa caggaagtac tgtcagtttc 240
cgagctacaa acaagctata agtttagaaa aataatttag aaatgtacaa caaagtctag 300
taatacattg ctaaagataa atcaatactc aataagttcc tcatgctttg gatttgggga 360
taacatacct gttttattta catgctaata tttggaccaa caaaaaatac cttatgaaca 420
gccatttgag 430

<210> 36031

<211> 337

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-052-Q1-K1-G12

<400> 36031

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gtttgttatc atagctggtc tagcctgcat ccacctgttg tcaaaatctt tcaaccacc 120

gaaagcaagc atcgcccacg attacattca taggcaaaac tgcccaatcc gccatthttgt 180
gagccatata attttcttttt ttataacaag gcgtcagcag gagagcaact atattttatat 240
acatcttttcc tgatctgtcc ctgtccggen acaagaacac caccaataag gatctcatca 300
ctacgagtaa gcggcacgac cgaattatth aactact 337

<210> 36032

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-G2

<400> 36032

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acagttggcc aggaactgct ggaacgctga actcgctcct tttgccccaa tcttcttcgg 120
caaaccacat cctctggcct ctgacaggte acaagtccca tgggtgccga tgatgaagag 180
cccgccgacg atctgctgag catatagcta tgatatgtca agagcgtaag agcgcaagcg 240
tgcacggcg tgaactacgg ctaggtggcg ggcaacctgc cgtcgacgga cgagacggca 300
aggctgctca agtcgacgtc catt 324

<210> 36033

<211> 142

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-052-Q1-K1-G3

<400> 36033

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gtctgtgtgg gatanagctc ataagcttgg gaccaaactc agcaggagat ccgcctcatg 120
aaactggaac gatggttcat ga 142

<210> 36034

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-G6

<400> 36034

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tgtggaggcc agcaggcaga ctgagctggt caagaaagtg tacgactcca tcatggaacg 120
taaccctagg tggaaccagc tgccggttcc aaaggaggcg ctgtacccat ggtactacag 180
gtctaccgta ctgcgcaagc ctacagatct ggagggcata gccatgacgc cgtctgtaag 240
cccaccact gggactgagg cctactgcct gctcaacctt ggggacagca tcaccacgga 300
ccacatgtcc tactcgggga agatccccga gggcacacct gcggccaagt atctgctcga 360
gtatggggtg gagcccaaga acttttagctc ctatgg 396

<210> 36035

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-G8

<400> 36035

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ggtaggtttt tttttttttt tggaaaccca acccccata aatgggtttt tattggctat 120
atatgatcag gggcttttga aagacgaggg tgccatgaat attttttcta caatataagc 180
tgagtcttaa aagagtcaaa tgagatttaa tcagacttaa gtttatgaga tgcgctttcg 240
gtaattagga gcccacagg ggtggggcag ctttaaaatt tttccatgag gcccacaaac 300
attgtccaat caataaccg agtcatagga tagctcctga aaaagaagtt tggggtcacc 360
atcgaaaagg tatatttttc ccagttaaac aattttgggg gggcttaaa 409

<210> 36036

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-G9

<400> 36036

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gaggggctcga tccggggggc atggcgctgg agtgggtggt gctgggctac gcggcgggcg 120
 cgaggaggat catgctgctg ctgctgacgc tgccggggct cgacggcctg cgccggggca 180
 tgatctccgt ggtgctggagc gcgctgaagc ccatgatgtc ggtgggtgcc ttctgcctct 240
 tcctgctcat ggacatctac tggaagtacg agacgcgccc cacctgacgac gacgagcacg 300
 cctgcacccc ctccgagcac ctctgtcacc agaagtccat catgaagtcg cagcggaacg 360
 cgctcctcat cgccgcgcgc ctgcttctct actggat 397

<210> 36037
 <211> 130
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-C2

<400> 36037
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 tggatgatca cggttgtgct catgcgtgtg gaggtgccga tcccgtcgtc gttgaaaggc 120
 gaggtgctca 130

<210> 36038
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-C3

<400> 36038
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 ggcatccagg gattgcttat tggctattat ttgcacgcaa aggaaaaaaaa agatgttatg 120
 ttttatatct taggccagac tgctgtatct acttatttgt gactgctgtg tgtgcatgga 180
 tttatagtga atctagatta ttgggcttgt gctttgttca tgccgctgct gtctgcccac 240
 ttttctattc agacatgaaa ttctttgttg ggagcttgat aagctgcatg ataagaagcc 300
 ctttttaagt attgactagt t 321

<210> 36039
 <211> 421
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-C6

<400> 36039

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aggcagagga gatgaagacg ttcgacccgt ggccggtctt gttccggcgg gagtggaagc 180

gcaactggcc cttcctcacg ggtttcgcca tcaccggatt catcatcacg aagatgacgg 240

ccaacttcac cgaggaggat ctcaagaact ctaagtctgt ccaggaacac aagaagaagc 300

actgacgaac caggtgaagg agttgtcaga aacgcattgt tggccagcca gttctgttat 360

gcttttgaat gaaaaattta gacccttctt tctcgtttcc ttaatcgaaa tgcttgcaact 420

c 421

<210> 36040

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-C8

<400> 36040

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atcccgccag ctgccctgat cgcagttgcc atccgctggg cgtagtcgac agcgtcccaa 180

aagaggggtgc tgctgctgac gactgctagg ggtgtgtggag tcgcgccggt gaggtcgagc 240

gggatcgaga cgacgtcgac ctcggtggga gctgaagccg tcaccgggca ggtcacggag 300

gtcaacaagg acaccttctg gcccatcgtc gaggcgcgtc gcgacaaggt cgctcgctctt 360

gacatgtaca ccgaatggtg cggg 384

<210> 36041

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D1

<400> 36041

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ggccagtatc aggggtatact tttattggcg ttactggaca accctaactc tgacagtgag 120

cctatatttcg atgtttctgt tgagggttct ctgttcagct attttgtgct gggcatgac 180

agcgacgatg agaagacatt tgcgagaagc tttagggttt agtcatgact taagcttata 240

agtttgctta catagtacag ggcattggta tccatcgaat ctttctattg aagttctaca 300

aatagatgac gatgcctata acattgggtcc accacgggaa aaagggacag tgcttaaagc 360

<210> 36042

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D11

<400> 36042

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aaagcattgg agacatgact tttgactgga gacaggagga aagagagatg ctaagacata 120

aggtaccgtt gactggctctg aagacaccat ttcgcgatgg atatgttaga gatttagccg 180

aggaagttct aaaactggcc aagaatggat tggaaagaag aggatacaag gaggtcgggt 240

tccttagaga ggttgacgaa gtggtgagga caggagtgc acctgccgag agacttctgc 300

atctgtacga gacgaagtgg caacgcaacg tcgaccatgt tttcgagcac ttgctatact 360

gacgttgtag atgtacccta gtacaaaaat ctcattcttg attcattcaa cgccttgagt 420

gggagggcac aggaacacat ctttt 445

<210> 36043

<211> 350

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-052-Q1-K1-D12

<400> 36043

ggcgttcagg gtgttcgaca aggaccagat ttgcttcatt tttgccgcgg agctccgcca 60

ggtgatgacc gacctaggcg agaagctgac cgacgaggag gtcgacnaga tgatccgcca 120

ggccgacgtt gatggcgatg gccagatcaa ctacgaggag ttcgtcaagg tcatgatggc 180
 caagtgagta aagcctgcgg taatggtata gtaaccccg cgggaaggag gaaaccgtgc 240
 gttgcatatt agtaaggcaa tgcaatgcag ctcttgtttc cttcttcccg tgaagaaacc 300
 gtactagctg tagctgctga acgtttgagt ccctctgctg ccacccttat 350

<210> 36044
 <211> 327
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D2

<400> 36044

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 ttggctccac gcgacagttg gaatttggat catcgtgacc tccttgggtg ctttcttcat 120
 cctagccagc tccatcgtgt gccgtctctg cagtaggcct tgaagagcgt atgcaaagtg 180
 cagtcgagca tggacgcaa gaaaggcatg ttaagctgta agtcgggctg caagaaccgg 240
 tgatgagagg gacaaccaa gaaggggacg ccagcaacga ggagtgaac tgggccaagg 300
 gaaagggggt ctacgacaac gtgttcc 327

<210> 36045
 <211> 373
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-052-Q1-K1-D3

<400> 36045

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 gagaaagggg aaaggaagga tgggaggcgg tcgtcgggcg agatgagcga ctcttctgct 120
 cccgactgca agaagcatat ggaggtggcg ttcgaccact cggcgggtga cattggtgtg 180
 caccgagtgc ggtctcgttc tcgaggcgca ctccgtctgc tagaccttcg agtgctgcac 240
 cttecgtaac gagtccaacg acaacgaccc cgttcgtgtc ggtggcccca ccaaccgct 300
 oetaccgat ggcggcctct tcaccgtcat cgccaagccc aacggtgcgc anggcgactt 360

cctatccttc ttc

373

<210> 36046

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D5

<400> 36046

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ttagggccag gagacatcgt ggagcacatt ctgcccactt gtttcttgca gctttttcct 120

taggtctttg ttgagatcct gcttctcttg ttccttgctt ttgagatcaa agagctgac 180

gagtagtgtc tgattctttc ttgacctgat atgcttcagg gataacctga tctgggttctc 240

cagctgctcg agctccttca tgctgagtgg gccagatct tcgccaagga tgtttctttg 300

tgtagtctgg agaaaatcaa ctctggctct caacttcaag tagtcttcac tctccagtgg 360

agcttttact tctgtgtgct tggaattgga gctgcggtat ctctcgagtg ttttgta 417

<210> 36047

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D6

<400> 36047

atgcgcccac gcgtccgcac ggtcacatcc ctcttttgca cgatgccaga cccggacgtc 60

gtgtggggta atacgtgat ctcaggctac tgccagcgcg gcatgttccg gaactcgatg 120

ggccagtcta tggagatgct tcaccgtggt gttgccctcg acaggacgac tctcgctgtc 180

ctgctcaagg catgctatga cttggacgac actgacactt ggtgtccaga tccatgcgct 240

agcgggtgaag acgggcctgg agacggatgt cggggccggg agcgtctctg tcgacatgta 300

tggcaagtgc aggagcttgg atgacgcgct gcgcttcttt catgggaagg gtgagaggaa 360

ttcgggctcg tggggtgcgg cgatcgct 388

<210> 36048

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D7

<400> 36048

tcgcggacgc gtgggaggac gcgtgttcaa gcttaagcaa caaggcagca gcacaagcaa 60

gaacggcacc ttctcccttc gcctgtgata atgtcgtctt gctgcggcgg caagtgcggg 120

tgcggtcca gctgctcctg cggcagcggg tgcaacggct gcggtatgta ccctgacgtg 180

gagaccgtcg tcaccagcag cgtcaagacc acggtcctcg ccgcgccgac caccaaggcc 240

agcgccggcg gcttcgaggc ggccaccgag ggcggcggct gcgactgcaa cacctgcaag 300

tgcggcacca gctgcggctg ctctgtctgc agctgcaact gagccggccc ggctcggcga 360

tggcgacga gagtcgagag gacgacgacg aggaggcgta taataaatat aatagcggcg 420

<210> 36049

<211> 420

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-D8

<400> 36049

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aaattctggg gtgaagtttt ttaggctacg agcaggcgtc aaaggaatt ctgtgggcct 120

accgtcaaca gactgggtgaa gaggatgctc atcttactcc gttcttgac cttgtatctg 180

gagcatgtgc tgctatcata tttatgtctg ctacttaccg gatggatatg gttaggggaa 240

ggatcactgt tcagacagac aaatctccct accagtaccg tggatatgtt catgcaactgg 300

gtacagtcta ccgtgaagaa ggctttcgtg ctctatacaa aggggtggctt tcatctgtaa 360

tccgagttgg tccatatggt ggtctcaact tcgctggata tgagtcctc aaagacttgc 420

<210> 36050

<211> 297

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-052-Q1-K1-E10

<400> 36050

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 tccccgggeat cncgggctcg tggacctggg ccacgtcaaa ctcgggcacg agtacaagct 120
 cgtcgtcacc acctactcag gtgcggagcg ggtgatgaaa atggaacagc tgctagctga 180
 tgagtcagtg aactagctt gctagctaac gaacgtacac gcacgctcgc cgtgcaactg 240
 taggtctgta ccggtaccgt gtgggcgaca tgctgcgcgt ggccgggttc aagaacc 297

<210> 36051
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-052-Q1-K1-C11

<400> 36051
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 gctgccgggg ccacatagat gggggggttg gggaagactc ataanaccaa tgcgtatttc 120
 aaacgtttcc aagtgaaatt caagagaagg cgggctggca agacagacta cagggccagg 180
 ataaggctga ttaaccaaga caaaaacaag tacaacacac ccaaatacag atttgttgtg 240
 cgatttacca acaaggacat cactgccccaa atcatatctg ctagtatagc gggtgatatg 300
 gttcttgctt ctgcctactc gcatgagttg ccacgatatg gtcttgaagt tgggtctgacc 360
 aactatgcag ctgtctactg cactggcctt ctgttggtc tccgtgtgct caagaatcgt 420
 ggtttgatc 430

<210> 36052
 <211> 381
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-052-Q1-K1-E12

<400> 36052
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 atctcggggg ccgccgattc gatccgggtc ttccaacca ggggcagtga tggcgacgaa 120
 gaggagcgtg ggcaccctcg gcgaggcgga tctgaagggg aagaaggtgt tcgtgcgcgc 180

cgacctcaac gtcccgtctg acgatgcccc gaagatcacc gacgacaccc gcatccgcgc 240
ctccgtcccc accatcaagt tcctcctcga gaagggcgcc aaggtcatcc tcgccagcca 300
cctgggtcgt ccaaaagggtg tcaccccaaa gtacagcttg gagcctcttg tccacgcttg 360
ctgagctctt ggagtgagtc g 381

<210> 36053
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-H8

<400> 36053

gcctgggagg ccaccaatgc ggtgttcgat cttgggtgcgg gcactggacc cgggtgacgc 60
gtgcaatata atgggcctgc tgctcatcca ggacaacagc gacaaggagc tcatccgctt 120
cgccttcggc cccgaccacc tcctccaagc cttcgtctcc gccgcgcgcg ccgacctcgt 180
cgccaagccc gcgttcccg cgtcgaccgt gctgggcccg ctccaccaga cctgggggacc 240
gacgtcgac ccgagcccta ccgccggctc cgaccacca caccaggccc acttcgacga 300
cgacctcgcg ctcggtctacg acttcgacgg cgccggcgcc ggcgctgacg cgttcttccc 360
cgacgactac gactgctggt caccggtcgg cgccgtccac cggcggagct tctcgctcag 420
agacgccgag gccgtcgccg tcaccggaag cgtctcgtgg a 461

<210> 36054
<211> 391
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-H9

<400> 36054

ggccgaccac gcgtncggag cacatccctt ctggttgccg cgatgttgat cgctgggggtt 60
cacgtggtcc cctcaggcaa gatggtcctg ctgcacgact ggatgcaccc tcatcacgcc 120
aagatactga tcgctggcgt ggatcaagat tttcctctaa ctcaacgtcc tcttcatcaa 180
cctggagccg ttcacggaac tgatcctatg ctgcaggact tttttctagc catgtgtcga 240

cctccgtgca caatgtctaa tcgtaccttt ccaggcactg cactacatgc atattattgc 300
 tgttttgtac tttttagta atactctaca atccatgatt attgtccctg tttgttaaaa 360
 aaaaaaagat taatcccatt tgcatttttt c 391

<210> 36055
 <211> 286
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-052-Q1-K1-A10

<400> 36055

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 acttggtcga cttgaaatag cgaaggatgat tgctactgag gtgcaaagt aatccaagt 120
 gaagcaatta ggggagttag ctatgtcaaa tggaaagctt gaaatggcag aggagtgtct 180
 tctacatgca atggacctca gtggtttgtt gcttttgtat tcttcccttg gggatgccga 240
 aggcatthaac aaattggcat ctgtagccaa agaacaagga aagaac 286

<210> 36056
 <211> 346
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-052-Q1-K1-A12

<400> 36056

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 ggcgcgccgt gccagcctgg tgccctgccg cggcgtgct cgtcgccgtc gctgccgcgg 120
 cgggtgccgc gacgtgcgag cgcacgcagt gcccgccgta cgaggtggtg gacagcgcca 180
 acgggttcga gatccggcgg tacacggacg ccatgtggat caccacggcg cccatcgagg 240
 acatctcctt cgtcgccgcc acgcgcaccg gcttntcca gctgttcgac tacatccagg 300
 gcaagaacgc gtacaacgag acgatcgaaa tgacggcgcc ggtgct 346

<210> 36057
 <211> 153
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-A3

<400> 36057

gccgaccac gcatgcgata atctcttctt cacctcacta acaccagtta gcaactctat 60

ctctactgca ataatggggg gtcgcgccta cttctcccag ccgcagctgg tcgcggcggc 120

ggcgggtactg gcagggggcg tgctgctgct ggc 153

<210> 36058

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-A5

<400> 36058

cacaggcgta cgtctagcta gctagcaacg tgtgcgaaaa ggtctacgtt tagcgatgtt 60

gcgcataaac cacacatggg cccatcctgt ccttagtagc cagatcaacg gacccaacaa 120

tgatagcctt atgaggcac 139

<210> 36059

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-A6

<400> 36059

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tcagggctga cgtgagagcg ggcgagagag agcgagggag aggcctggct agatgcaagg 120

ttgcgacgat ggtggtggcc 140

<210> 36060

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-A7

<400> 36060

cgtcacatc ggggtgctcg acaccggcgt ttggcccgag agccccagct tcggggacgg 60
 ggggcatggc cctgtgcctg cgcggtggcg cgggagctgc gagaccaatg ccaccgactt 120
 cccgtcctcg atgtgcaacc gcaagctcat cggcgcccgt gccttgttcc gcggctactc 180
 gtcggggggc ggcgacgggt ctcgagtcgg cgcggaccta atgtcggcga gggaccacga 240
 cgggcaaggc acgcacaccg cgagtacggc agccgggggc ggtcgtggcg ggcgcaagcc 300
 ttctcgggta cgcgccgggc acggtgcggt gcatggggcc cggggcgc 348

<210> 36061

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-A8

<400> 36061

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 gacagggggc agaacagctg tatctgtgcg gcggagctcc gccacgtgat gaccaacctc 120
 ggcgagaagc tgatccgcga ggatgacgat gagatgatcc gcgaggcctg ctgtgatggc 180
 gatgtgcaga tcagcttcga ggagttctgt aaggatcatga gggccaagtg agggaagcct 240
 gcggtaacgg tatagtaccc cgcgggaatt ggaggaggaa accataccgt gcatcgcata 300
 ttagaaaggc agtgcaggtc ttggttcctt cggcttcccc atgaagaaac cgtactagct 360
 gtagctgctg aactgttggg gccccctgct ggcaccctta tcttcattt 409

<210> 36062

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-052-Q1-K1-B10

<400> 36062

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 caacggggaa gttagcaaaa acagttgcaa aatatttggc atatctttga ccgagaaggt 120
 tccagcaatg aaagaaaagg gctgtggtga catcaacacc aactatccat ccccttcct 180
 gtctttgaag caacaagtgc cgaaatcgct gggcaacagc tgtgccaccg ttcatgagca 240

gaggcctgtt gttgctaggg tgattgacgt ttcaacagtg gatatgatga tctgatgtat 300
 tggaaaactg tcttggaggc tgtgttgctg agtgtggaca gtgtcggctt gatgggttcgg 360
 tatectgaag acgggatttg attgaggatc t 391

<210> 36063
 <211> 302
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-052-Q1-K1-B11

<400> 36063
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 aatgccttca caccancctg agtttataga ctatgttcca tgagtagtct atagaatgat 120
 gtctttttta ttcaaaagaa atctctcttc taggctggtg cttttcgact ataatttggg 180
 gattgttccg tgtccgtgca atcatctgaa catgttacta cttattgtac cttgtcgagc 240
 aaagttctgc taagatctct attgcttcat gtcttctgaa aaaaaaaaaa gaaacccccct 300
 gt 302

<210> 36064
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-052-Q1-K1-B12

<400> 36064
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 tttgggtcgg nttgggttgc taggcacttc tgtgctgttg taatatgggc cacggggtct 120
 ctcaatagct ttgtcataaa acaattctac ttccccctaa tatagtacat gtgactctga 180
 catgttatcg aacaaaaaaaa aacattgctc gctctaaatt ttatgagatc tggcatgatt 240
 tcaaactatt cttcttttca aaatcctgtt ttctgactgc agttttttaca agattttatg 300
 gtcttgccgc ttcatttttc tgactgtttg cattggaccg ataccttctg atggccttgt 360
 ccgcctatct tcaagttcgc taccaaagca g 391

<210> 36065
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-052-Q1-K1-B3

 <400> 36065

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 gggatgtagg tcataggta tgggtttcga actttcaacg gacgcaagtc ttgaagagtg 120
 gatttggcta ttgatgctga gattctataa tgtctattgg ccacaccagc ttttaccatgc 180
 tgcctattta taggtctgat tagtgccctt cgaatagtgt tgttatttag agcttatgaa 240
 ttagcctctg cctgtgtatt ttagaaattg gccattccag agtccatttt tgtgaaaata 300
 tattttattat catactctgc tactgaacgt ttgtacaatt aatacatggt gtatagactg 360
 gtcttgggc 369

<210> 36066
 <211> 131
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-052-Q1-K1-B5

 <400> 36066

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 ggcggtttct gcctgcgcgt gtgcgtcgca ggtctgccgc cccctattcg gtgccgccag 120
 ttgcattctcc t 131

<210> 36067
 <211> 106
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-052-Q1-K1-B6

 <400> 36067

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 gggtcgtggg ttagcggatc gagatggcgg cgtcggatgt tgagta 106

<210> 36068
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-052-Q1-K1-B7

 <400> 36068

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 gcttcactca gtcttagtct cttattagct ctaggctcta gctagccgcg ccactccttc 120
 gtgtagccat cagccttctc atcgccacca atggccactg ccgaggtcca gaccccgacc 180
 gtcgtggcgg ccgaggaagc gcccggtggtg gagacccgcg cgccggccgt cgtgcccagag 240
 gagtctgccc ccgccgaggc cgaggccgag gccgaggctg ctgctcctgc tgatcccagag 300
 gagcttcccg cggccgagca gcaggcagcc gccgaggcgg aggccgcggc tctgtctggt 360
 gccgaagagc ccgtcgcggc cgaaccggcc ggcga 395

<210> 36069
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-052-Q1-K1-B8

 <400> 36069

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 aatggactcg aagctgaggc tgatgtcgtt gatgcaggat cagggaaaca actagatgga 120
 cagtatgttc agaagttagg atcagtgata ttcctacccc aagtgttgta atgcatgtgt 180
 tctaccggtt tctggggtat ggtaaaaggc tagtagctca ttggatgagg atgcttgttt 240
 aatttattgg cttgatgaaa ccatcgggta cttgtagtgt ggacatatgc tggatagtta 300
 gcatgtgatg aactgattac aatctgtggg ggtaaaagcc ggcgtctatg taaatgataa 360
 atttt 365

<210> 36070
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-H6

<400> 36070

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gagcatcccg tggagagaag gcggcggcag cgcctgtggg agatgtcaat cctgtgggag 120
aagagcgcgg gttggcgatg gctgggttcgg cggacgcgtg actcgaagcc cttctttttc 180
acgttcgcgg cgctgtgcgg cgctgcctccc ggcgtaatcg gctacggcgt gatgcagctc 240
accggctccc gcaacgagca gctcgaggcc caccttcgct ccacggcccg tcccgagacc 300
acgatgatgg ggcaagtga cagggagagg ctggcggagt ttctcggcga gctgcaacgg 360
aaagaggaca cgaacgacag gtacgtggcc gcgctgaggg gggagaccct gaccaggaag 420
cgctacgagc g 431

<210> 36071

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-052-Q1-K1-C10

<400> 36071

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acactttctgc ggacgaaaag gttctttctg atggtgggac tgatgttaaa gaccaatgca 120
ccaagtttgg tctcggggat aatgtcaagg tacacaatgt ttgtcacct catcgactcg 180
agccatgtga gggttcagcg tggaggttcg tcgaggcctg ctgctcgtag ctctgtgcgc 240
tccactcaag atccagcaga agtggagcaa ctacgagaag aacttaggcg acatcaagat 300
tccttgaagc aacaagctgc gcaacatgaa tactatgcta cacaaccagg tatgggatat 360
ttgccgccac caccatggag atatcctaca cattcaatgg ggccttgggg acgccccca 420
tggccaacac aaccacttcc att 443

<210> 36072

<211> 317

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-051-Q1-K1-G11

<400> 36072

ggccgacgcc acgcgtccgc ccacgcttac gcgatgagtt tctctctgtt gcggccgctc 60
tgatcgaggg ggtggccggg gcctgcctcg ccgcgccgcg gggcgcggaac nactacgccg 120
aatgcgcgga gacgaccatg gacacggtgg tgatgatgct ggcgctcgac gcgctggacc 180
aggacgacac ctgctgcgcg ccgagcgcgc ttaatgccat gaggtgcacg gcacccctaa 240
gcatactcct actcatggac atgtactgga acgtccaaac accccaaca agccacgaat 300
aaaaggcttg gacccca 317

<210> 36073

<211> 465

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-051-Q1-K1-G12

<400> 36073

aaanngggcc gaccacgcg nncgcggacg cgtgggcgga cgcttttga gcgtattctc 60
aggnttgccg gtatgagact tatcggggaa ctcaattgtg cgagtgacan cangagctct 120
tccaaaaggc cttcacatgt taagcctgtc aaagaataac atatcaaca ttgaaggcct 180
tagagagttg acacgattgc gcttggtgga tatcagctat aatagaatat ctagaattgg 240
ccatggattg gcctcctgtt cctcgttgaa ggagttatat ctggccggtg acaagatcag 300
tgaggtagat ggtcttcacc ggcttctgaa gctcaagatt ctggacttgc gccacaaca 360
gatttctaca tcaaagggcc tcgggcagct agctgcgaat tacaactctc tagaagccat 420
taaccttgcc ggcaaccctg cacagaagaa tgtaagcgat gagca 465

<210> 36074

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G2

<400> 36074

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gccagtggcc caccagatca cttgttaaac tttgttgagg ggtgatggcg gtttctttcg 120
 caaacctcaa caccgaggca gggcttaaaa agcttgatga gtaccttctc actcgagct 180
 acatcactgg ctaccaagct tccaaggatg acttggtgt ctacacttcg ttttcgtctg 240
 ctccctcgtc caagtatatc aacgtagcaa ggtggtttaa tcacattgat gcgctcgtga 300
 ggctgagcgg aattactgca gagggccaag gtgtgaaagt tgaatcctca gcagttcctt 360
 cagccccaac tccagatgtt gctgaagcac agggcccagc tgctgaggag gaagacgatg 420
 atgatgttga cttttttggt gaggagaccg aagatgagaa g 461

<210> 36075
 <211> 518
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-051-Q1-K1-G4
 <400> 36075

gaattatccg ggctcgaccc acgtcgcccg cagtcgatca gcccgcgta ttggagcagc 60
 gagttatnng agtcttgcca tggcggagaa agaagcnagc ggcccaggta gggteccagg 120
 aaggggacga gtgtggttac cccgcgtagt acanctcatc aacctccaca tagcgctcc 180
 acngnatgca nccttcaaga tagaaaggcc cccaatggct atcaanggaa atcaggaag 240
 tttgcacaga aggcaatggg caccactgac atcaggattg atgtgaaact caacaagcac 300
 atctggagca gtggtatccg gagtgtgccg aggcgtgtcc gtgtcaggat cgcacgcaag 360
 aggaacgatg aggaagacgc caaggaagag ctttactctc ttgttaccgt tgctgagatc 420
 cccccagaag gcctgaaagg tctgggtacc aaggttgtgg aagacgacga gtagatctgc 480
 ctgggtactg atctgtgtca actgtcaaact catttttt 518

<210> 36076
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-051-Q1-K1-G5
 <400> 36076

cccacgcgtc cgtccacgcg tccgggttttg ttgatcctgg tccacatgga gcaggtagat 60
gtttctgacca tatgttacct gaaattgtga agaaagattg gagaaaagggt gcacagtgggt 120
ttacagtgaac acggcagcat gcagttctta ttcttgctga caccctttac tatgggaagt 180
tcaagcggtta ctgtaagcca ggaaatgagt ggcataactg ctattcagat gagcactact 240
tgccaactct cttcaatatg gctgacccga ctggaattgc aaactgggtca gtgacgcacg 300
tagattgggtc cgaagggaaa tggcatccca aagtctacag ggctgtggat acgagcttcg 360
agctgctcaa gaacatctcg tccattgatg agagcgtcca tgtcagcagc aacgcgaagc 420
atgtagcgca gaggaggccg tgcgtgtgga 450

<210> 36077

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G6

<400> 36077

ccaacctgag cacaccatcg agtgttcggt ttggagcagc catggctaca taggggggtcg 60
gctgagctag cacatgcctt ggcacccgaa tatcggaccc tgcgacactg tacgcacacc 120
tagtgaacgg gttccgggtt gacatgtgcg gtaaggccaa aactgctatg aagaacgtgg 180
ccacgacata ctgtcctct gaacgatcga cgtgagtcac ctgagccgtg gagcccgact 240
acctggacgg atgcctgac tgataatacg gattagacac gtacaggctc acgaagcctg 300
tcgagaacat cgagtttagg ttggactcgc tggactaaag cctgtgcacg aatgaggggt 360
caagtata 368

<210> 36078

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G7

<400> 36078

gccaccacca gcagtccttc acgttttagcg ttataatatc caccggcgcg ggggagcgca 60
ggcgggcgcg ccggggattc gaagcgatgg cgttcacgat gcgggcagtg aaggtgcctc 120

cgaactcggc ctcgctggag gagggccggc accgggtctt cgatttcttc aagcaggcat 180
 gccgctctat cccaccgtc atggagatct acaacctcga cgacgttgtc acgccctctc 240
 agctccgctc gaccatcgct aaggagatcc gtaaaaacca gaacgtcacc aaccccaagg 300
 tggttgatat gcttctgttc aacgcgacgg aagagctgaa caacatagtc taacatgcag 360
 agcatcgcca tcatgtgatt gggcagtatg tgatcggccca agagggcctg gtgcatgaac 420
 tgtggtcgaa ggatctaggg aactc 445

<210> 36079

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G8

<400> 36079

cccacgcgtc cgccactcg tcttctctt ttctctgct cgccgcgccc cagggcagag 60
 catggcgccc ccacgccctc tctcgcgcg cgtcttctc gccgcggcgg ttctgctcct 120
 cctttctccg gcagaggcgg agacgggtggg cgtgaactac ggccgcgtgg cgaacaacct 180
 gcccaccaca gctgcggttg tgcagctgct caagcatcag ggcgctgcgc aggtt 235

<210> 36080

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-H10

<400> 36080

gacgaataat ctcttcttca tctactaac ttcagctagc aactctttct gggctgcaat 60
 gagggccgct cgctcctcct cgtcccagcc gcagctggtc gcggcggcgg cggtcctggc 120
 agcggcgctg ctgctgctgg cggcgggggc cgggacggcg tcggcggcgg tgagctgcgg 180
 cgaggtgacg tcgtcggtgg cgccgtgcct cgggtacgcg atgggcagcg cggcgctgcc 240
 ctccggggcg tgctgcagcg gggtgogctc gctcaacagc cgcgcgtcgt cggcggcgga 300
 ccggcaggcc acctgcaact gcctcaagag catgacgggc cggctcggcg gcggcgctcag 360
 catggccaac gccgtcaaca tccccgggaa gtgcggcgctc 400

<210> 36081
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-051-Q1-K1-H11

 <400> 36081

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 cccaccaaca agaggtacaa ccccccaat atcttcagca gccctgaagt cgccgccgag 120
 gagccccggg atggtattga gcaggagtac accctcctcc agaaggacac caactggccc 180
 cttgggtggc ccatcgggtg cttaccgggc cctcagggtc cttactactg tggaatcggc 240
 gccgaaaagt cgttcggccg cgacatcgtg gacgccact acaaggcctg cttgtatgcg 300
 ggcatcaaca tcagtggcat caacggggag gtgatgccag ggcagtggga gttccaagcc 360
 gggccttccg tgggtatatc ttcaggcgac caggtctggg tcgctcgcta cattcttgag 420
 aggatca 427

<210> 36082
 <211> 276
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-051-Q1-K1-H12

 <400> 36082

 ggccgaccac gcgtncgnta tcttctgggt gctgttatcg actactatga gttctacgaa 60
 gatgctggac gtaccgggtg caacaagatg gtagagagca cgcagctgtt cgagagcatc 120
 accctccatc cgacattcga gcaagcagac ttccttctgc tctcaccaa gttcgatctc 180
 ctagagcaga agatcagcag tccccgctg acctcgtgcg actggttcag cgacttcaact 240
 cccctgatca gccgcaacct cctcaacggc ggcagc 276

<210> 36083
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-H3

<400> 36083

gaaagccgtc cgtgcagctg gtgagcctct tttcgattat tggagctgtc tcaagtccac 60
ggttcggact tttgaggcgc aatgtgggtc gttggcgag tatgggatga agcacatgcg 120
gtccttcgca aacatctgca acgctggcat ccttctgaa gcagtgtcca aggtcgctgc 180
tcaggcttgc accagcattc cttccaaccc ctggagttct atccacaagg gtttttagcgc 240
ctaagaatca taagggtgagg cgaaatattt cagccgctcc accgcaacga actggtttac 300
attaccagtc ctcagggggg tcttagttct tgaaccataa gtgaagcaga cttataccac 360
tattatagct gttccaccgt cgttccagat tacatagcta tgcccaattt gcggtgtaca 420
tatatagtcg gaaagttatt tggcaattgt attg 454

<210> 36084

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-H4

<400> 36084

cagaggcgat ggctcccttg catattactt ttccaattta tatctgacca atctatttag 60
gctacgtgga cttactctcg aggaaacatg tatccacaac aagcaagtca aaaaccatc 120
actggcacta ccgatgaaca gcaattgtct caagctacct ttaccctaaa tttagctatg 180
acctgaacgt ccacatgggt tacactatct acacacttac tactgataat atgataaggt 240
tgatacttac acatctaaca agaatagcat ctgtgaagaa atcgatcttt gtgaagattt 300

<210> 36085

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-H5

<400> 36085

cccacgcgtc cggcagccaa caactttgcc tttggtcact acaccattgg caaggagatt 60
gttgacctgt gccttgatcg catcaggaag cttgccgaca actgcactgg tctccagggc 120

ttcctcgtct tcaacgctgt tgggtggagga acgggctctg gccttggttc cctcctccta 180
gagcgccctgt ctgttgacta cggcaagaaa tccaagcttg ggttcactgt gtacccttcc 240
ccccaagttt ctacttcggt agttgagcca tacaacagtg tactgtccac ccactccctc 300
ctcgagcaca ctgatgtggc tatactgctg gacaatgagg ccatctacga catctgccgc 360
cgatcccttg acattgagcg cccaacctac accaacctca acaggcttgt gtcccaggtc 420
atctca 426

<210> 36086

<211> 263

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G10

<400> 36086

cggacgcgtg ggcggacgct ttggtttagt tttgtgtaat ggatttctgc agcatcaaga 60
gtgatactgg caactccatt gataagactg catgctcaaa taaagcttgg accatgaagt 120
gagatcaagc tcatggacaa gttagcgatca tcttttatcc aatcttagtg tattcccaat 180
agagcacacg tgaagaaaat attttgtttg actactgtaa atgtttaagg caatgaaaat 240
tacaaatatg aaatagttgt ggt 263

<210> 36087

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-E4

<400> 36087

cggacgcgtg ggcagcatgg aagcatggct tatgtcctac atttaattac cttttatctt 60
gcactttggg gtgccatttt gtacaatggg ttacatact atgaagtaaa ccgcatgctg 120
aataatgcaa cgcagatggc tgctggcata agtgatcgat caaatcagtc tgacatgagg 180
gcagacagga aggcatttaa ccgatgggt tattaccctc taattctaata cggttcatgg 240
gcttttgcaa ctatcaatcg tctttatgac ttgccaatc cagggcacag gatagtctgg 300
ctctcctttc ttgatgttgg gttcgctgga cttatgggoc tattcaattc cattgcttat 360

gggctaaact cttttgtgcg ccgagctatt gcagagagaa tcgacacggt cctacctgag 420
agaataaaaa ggagcctccc tgctttgtc 449

<210> 36088
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-E6

<400> 36088

ccatggatga aattaatgaa cagactgaat ttatgaaaca aattcaggat gctttgtcag 60
gtcctctcgg agcttctgct gatttcgatg aggatgaact ggaagccgaa cttgaagaac 120
tggaggggagc agagttggaa tctcagcttc tggagcctgt tgcagctcct ccggtgcatc 180
cagtgcattgc cccagccaac aagcaaccag cgcgccctgc tccacagaaa gctacagctg 240
aagatgatga gcttgetgca ctgcaagctg aaatggcatt gtgatcaggt ttccaattaa 300
gaggtggaat gtgtatatga atggcggtat gctaccaaga tgaaagttga gtcaggattt 360
attatatttg ccatgtgtat aatcttgggg gatatttggc aagcagaaaa aagctgctcc 420
aggcagtgtt tgtttcagtg antttgggct ct 452

<210> 36089
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-E7

<400> 36089

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gggtgggtcac ctccaagtac ggggtggagcg ccaacatgga gaagatcatg caggcgcaga 120
ccctgtcgga ctcgagcaag caggcgtaca tgccgggcaa gaggggtgctc gagatcaacc 180
ccaggcacc ccatcatcaag gagctccgcg acaaggctgc ccaggacaac gagagcgagg 240
agctgaagca cacggcgagg ctggtgtacc agacggccct gatggagagc gggttcaacc 300
tgccccgacc caaggagttc gcgtccagca tctacaagtc ggtgcagatg ggcctggacc 360
tgagccccga cgcgaccgtg gaggaggacg acgaggcaga ggagcagccg gaggtggagg 420

agaaggatcc ggaaccggag c

441

<210> 36090

<211> 320

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-051-Q1-K1-E9

<400> 36090

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aatcatctca atacattcga gacatggggc tggctctggac ccaactagca ccacataaca 120

ccacacacaa tgcaccgtag tgtgcgctga atacaccatc tcccaaccga aattggacag 180

agtgagccca ggacgggcaa aaactctcct actgttgatt gcaaagaaca ggacacaagg 240

aggtccggtg acctagcaga ggggggacga ctgcggagga cccgagcctc acctacccaa 300

agaccagtgc atctgtacca 320

<210> 36091

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F2

<400> 36091

aaaaaaaaa aaaaaacata aaaaaaaaat ttttaaatta aaaaaaaaaa aaaaaaaaaa 60

agaaaaaaaaa aaaaaaaaaa aaaggaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaa aaaaaaaaaa aaaaaaaagg ggcgcccttt taaaaaatcc aaaatttact 180

aaccgcgtaaa tgcaagttaa aaactttttt aaaggggccc taaaaataaa taaattgccc 240

aattttttaa aaatacaaaa ttggaaaaac cttgggggttc caaaaataaa tcgctttgaa 300

aaaaatcccc ttttgacaac ttgggt 326

<210> 36092

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F3

<400> 36092

cccacgcgtc cgccacgcg tccgcgttct tattecgtgt tgaagatgtc ttctccatca 60
gcggtcgtgg tacagttgcc actggccgta tgcagcgtgg caccgtcaag attggtgaca 120
cagttgatat cgttggaatc cgggacaccc ggaactgcac cgtgactggc gttgagatgt 180
tccagaagac catggacgat gccatggctg gagacaatgt cggactgctg ctccgtggta 240
tgcagaagga tgacattgag agaggcatgg tgctggcaaa gcccggtctt atcacaccgc 300
acaccaagtt tgaagcttgt gtgtatgt 328

<210> 36093

<211> 447

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-051-Q1-K1-F5

<400> 36093

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ggctccatga cgccgatgct catcggtctc gtcgtgctgg actccacgca ggggggtactc 120
tgcggcgctc ccaggggctg caggtggcag cacctggcgg cgtggaccaa cctggtggcc 180
ttctatgtca tcggttgcc gctcgccatc cttttcggtat tcacgctcgc cttccaaacc 240
aaggggctgt ggatggggca gatatgcagc ctctctgcc agaactacgt cctctttttt 300
atcacctgt gaaccaactg gcaggagtta gacctgacca tgttcaacaa ggacaacgat 360
tttgtgtgct aggaatctag aaagagtttt tattntcttt tttgccatgt gctgttgctg 420
aaacattgaa ccatcagcat caggctt 447

<210> 36094

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F6

<400> 36094

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gttgetgect acctgcttgc tgtcctcgct gggaacgcca gcccctccgc tgacgatttg 120
actgccattc tggagtcagt tggctgtgaa gttgacaatg aaaagatgga actcctgctg 180
tcccaactga gcggtaaagga catcacccag ctcattgccg cgggcaggga gaagtttgct 240
tcagtcccat gtggtggcgg cgggtgtcgt gttgcggcag ctgcacctgc tgctggcgga 300
gctgcttctg cagctgaggg aaagaaagaa gagaagggtg aagagaagga agaaagcgat 360
gatgatatgg gcttcagcct ctccgactag gctgcacagt catcacagta ttgttttggg 420
cagtgaacc agaggaaaac cagagtcatg tttag 455

<210> 36095

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F7

<400> 36095

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gatgggatca agctcactaa agtaccagg gcagccacag gaaattcctt tctttcagaa 120
taccacattt tcaatccctg taaacgatcc acaccagggtt tggaattctg acgagcacga 180
agatttgcaa gctcttgtga tcatttcgag accacctgct aagatatttt tatatgatga 240
ttggagcatg cctcatcacg ccgcggtact gaaattcccc ttcgtatggg atgaagactg 300
cttcgaagca gcaaaagacg aactctaggt cacaagtgtt ttctgcaatg tatctgcttc 360
atccatgatc ctgctggact actaaaattc acatgcacta gtcgtaataa agccagtgcg 420
ctattcatgt ataattctg 439

<210> 36096

<211> 352

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F8

<400> 36096

gtacaccaag cccaagaaga tcatacacat tcacaagaag gttaagctct ccgtgctgca 60
gttctataag gtggacgaca cgactagcaa ggtgaccgc ctcgcaagg agtgccccaa 120

cacagagtgc ggcgcgggcg ttttcatggc caaccacttc gaccgccact actgcggcaa 180
 gtgcggactc acctatgtct acaaccagaa ggcgtaattg cttgccccga tttgctttat 240
 ccgcctaccc tatcgaacat ccagctgttg gttactcgaa ttgtatctca tgtagatctg 300
 gctgaggttg aaacttaaat ggaacagtag tatatgtcat attggaaccc gt 352

<210> 36097

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F9

<400> 36097

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 gccaaagggg acgaccggcg gaggggtgac tgcgggcta tcaactctct gcgctggggc 120
 cggcccgggc gccgcgcaaa aatgcggatg gcagccaaac gtatgctgca gcaagattgg 180
 ctactgcggc acgaccgaca agaactgcgg ggacaggtgc cagaccggcc cgtgccgctc 240
 gggcggcggc ggcagcaacg gcggccgcgg tgcgaacgtg gctagcagtc gacaccggct 300
 ctttcttcaa cggcatcaag agccacgccg ggagcggctg cgagggcaag aacatctaca 360
 cccggagcgc gttgctgagc gccgtcaagg cgaaccacgg cttcgcccat ggcgggtcgc 420
 aagtgcattg caagcgcgag . 440

<210> 36098

<211> 451

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-051-Q1-K1-G1

<400> 36098

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 gggctccgaa aacatcgata tctgaccaa ctactcacct gtgctcaaca ctgacgacgc 120
 ctacgccagt caagaagtta acgggcctga cgggaagccc attggtcctc ctatgggaaa 180
 tccatggatc tacatgtacc ctgagggtt gaaggatctc cttatgatca tgaagaacaa 240

atacggaac ccacatatct acatcacgga gaacggaatc ggggatgttg ataccaagga 300
 gacacctcta cccatggagg atgccttaaa tgactacaaa aggctagatt acatccagcg 360
 ccacatcgct actcttaagg aatcaataga cttgggatca aatgtgcaag gctacttcgc 420
 ttggtctctg ctggacaact ttgaatgggt c 451

<210> 36099

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-E3

<400> 36099

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 gccctcggtc accacagccg gcacgccatg gccgaggaga ccgacaccag gcctgcctcc 120
 gcgggctccc gagggccgcc cgcgcccgag gacgacgaca gggaggaggg cgagatcacc 180
 gacctgcct gcgtccttc cccgccgcc acgacccgc togagcactc ctggaccttc 240
 tggttcgaca acccgcagag caagtccaag caggccgcct gggggagctc catccggccc 300
 atacacacct tcttcaccgt cgaggaattc tgggggcttt acaataacat taatcaccct 360
 agcaaattga tcgtgggagc tgatttccat tgcttcaaga acaagatcga gccaaaatgg 420
 gaagacccta tttgtgcgaa t 441

<210> 36100

<211> 92

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-051-Q1-K1-C9

<400> 36100

ccgnttgaa aaccggccga cccagcggc actagtaaaa gcaggatggt caataaaatt 60
 ttaaaaaaaaa aaaaaaaggg aaaaaaggga ag 92

<210> 36101

<211> 292

<212> DNA

<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-051-Q1-K1-D10

<400> 36101

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 aatctgatct gtttggagct ccgttanctc acccccaaac tttatttaga gaaggtgtta 120
 tgtcttttgt caagattata acatttctga acaattgtgc tacacacgac gtggcaccat 180
 tctcatcatg tatcctagga tgagttatca ctgttaaata tttcaagtca ttttaatcat 240
 gcatctgcac acaatattat agaagcactc tcaaattggtg ggacgctaac tt 292

<210> 36102
 <211> 402
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-051-Q1-K1-D12

<400> 36102

ggccgaccca cgcgtncggc cgctattaga agaacccttt ttcaagacta tgccatgtcc 60
 gtcttcgggg gacctgggag gcggtggcgc agctccgcaa ggccgggaag gtcaccgtga 120
 gggagaccac gctcaagagg ctgggcgccca cgcacttgag gtacggcgctc gcagatggac 180
 acttcgaggt gacgggggttc gcgctgcttg agacgatcaa ggaggcgctc cccgctgaca 240
 tgtggagcct ctagatgaag aaagcctggg ccgaggccta cagccagctg gtggcggcca 300
 tcaagcggga gatgaagccc gatgcctagt agtggcgatt gcgaccagtg ttttaacccat 360
 gacgcagcgc cgtcacagat gtcccgtgtg gtcttgcgct tt 402

<210> 36103
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-051-Q1-K1-D2

<400> 36103

aaccagctc gctcgtccca gctgatcatg ttgagcacct agtagcgacc tgctcgatca 60

gcantgtaga gtgtcggtag gtgtctgtct ctcttgggtg ctggttgcaa cggtcatggc 120
gacgtcgtct cgtcgggtgc ccttgtgtgt gctgtgctg ggcgtgctgg tgtcctgtct 180
cttcgcggtg ggcagcttgg accaggagct ggacatcacg tggggcgacg ggcggggcaa 240
ggtccttgac aacggggcggc tgtgtgacgt gtcgctggac cgcacgtccg gctccgggtt 300
ccagtcccgg cagcagtagc tgttcggcaa gatcgacatg cagctgcggc tgggtgccggg 360
caacttcgtc ggcaccgtca ccgtctacta cctgtcgtcg cagggcggtg cgcacgacga 420
gatcgacttc gagttcctgg gcaacgtg 448

<210> 36104

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-D3

<400> 36104

cccacgcgtc cgcccactcg tccgcccacg tttccgcaa tctttacccc aggacaatgt 60
gtttatgata tcaaacccaa aggcaaaata cctgtgtgtg cagctggacc ttagattgat 120
atcagatctt gttgttggtt tcgtgtctgc tacatgtggt ggaatcgctt ttgcttgctt 180
tgggcaacct gtgattacag gttatctact tgcaggatct ataattgggc ctggagggtt 240
tagctttgtc aatgaaatgg tgcaagttga aacggtagcc cagtttggtg tgatatttct 300
cctgtttgca ttgggacttg agttttctac tgcaaaactt cgagttgttc gtgctggtgc 360
tggctcggga ggaatgctcc aaattatgct gttcatgttt ctttgtggta ttttggttac 420
actatgtgga ggcaaaacaa aagaaggtgt ttttg 455

<210> 36105

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-D4

<400> 36105

ggacgcgtgg gcattcatca aactggctat ttttgataag gagcaggctg cgtgtagtgg 60
tcagagaaga cgagctgtcg acatcagtaa ttttgccagt gctgttatta gagttagcag 120

atcacagaca aaactaaaca ctgaaattgt aaaacatctg ggtattatcc atgagtacat 180
ggagacaatg gcttctgttc ataatgcttt tactgatcgt tccaatgctt tgcttcgtgt 240
gcaaaatttg tcagcagatc tatatttctt gcatacccg gaggaaaaac ttgaatctgt 300
atcagcgaga ggaatggatc aggagagatc aaggatcaa aagatagaag aattgaaaga 360
aacagtatga gccacggaag atgcaaaaac acgtgcactt aaagaattgg aacttatcaa 420
ggaaaataac atgaatga 438

<210> 36106

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-D5

<400> 36106

cccacgcgtc cggtaagttg ttgactgtgc ttcgctgaga accatagagg gcacagtgag 60
tatttgaatt tgatgggagc ctcgaggatt tgcctttgta gagtttgttg atccttacga 120
tgctctgaa gcccagtatc acatgaatcg ccaagtttctc tttggtcggg aaatagctgt 180
tgttcttgct gctgagtcac gaaaaaggcc agaagaaatg cgcagcagaa ctagagtaag 240
aggttactct ggatcatgaag gtcgccggtc ttcttactat ggtcgggtctc gttctcgctc 300
tcctcgctat cggggccgctc ctcggtcgag atcactactct cctgctccaa ggccgtggaa 360
tgactactct gcctctccaa ggagacagga agcccatcgc tcatctcctt ccaggcgcct 420
gccaaaggag catgatgaag a 441

<210> 36107

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-D6

<400> 36107

gcttgtggga ctgaaaggta ggattgaaat taaaagtgtc tacctacagg agctgcaagg 60
gcaatatgta ggtctgcaaa acctgattca acgaaatgag caatcatatg gttcaggaaa 120
cacgccttct ggtggagtgg ctttgccatt tatcttagtt cagacccgac ctcatgctac 180

cgtggaagtt gagatatcag aagatatgca gctgggtgcat tttgacttca atagcacccc 240
 attcgagctg catgacgact catacgtcct aaaagaaatg cgattctgtg gaagagaaca 300
 acatgacagc actcaagagt cgatatcaaa tggaggtgag agctcaagcg tgtcaaatat 360
 ttattggcaa cacgtacagc atgtggaaag gccaaacaat ggcacaggta ggttaccgag 420
 ctcaccgtct attccaggga tcttgaaag 449

<210> 36108

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-D7

<400> 36108

acggtacaat attgaacctc gcgtttcagt ttggtacttc caacagaaga tagagtactg 60
 gaaagacaag gtgggagcaa actttgttag ggagaggaga gcaatgaaga gagaatatga 120
 gggattcaaa gggagaatca atggcttaat ttgccaaagc caaaaagggtt cttgaaaaag 180
 gttgaccatt caagaatgaa ccccttgcc tggaaacaat ggtcgtgatc attctggaat 240
 gattcaagtc tttcttgccc aaagcggaag ccttgactgt gagggaaatg aactgccacg 300
 attggtttat gtttctagag agaaacgacc aggctataac catcataaga aagctggtgc 360
 tatgaatgca ttggtccgag tctctgctgt actaacaat gctccatatt tgctaaactt 420
 ggatggtgat cactacatca acaacagc 448

<210> 36109

<211> 229

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-D8

<400> 36109

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 acgtacgtgt ccaagctcaa ttacctaggg tccgggggag ccatactcga atggatcggc 120
 ctgtagggac acttctacaa gcccaacatc ccgatcatga gaaccatact cgacaagctc 180
 tccaccctgt gctgccccat cttgtttacc gaaatcgaca tcatcaaca 229

<210> 36110
 <211> 474
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-051-Q1-K1-D9

 <400> 36110

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 tcgccgaaaa gatcggccag atgacgcggg tcgggaggga agacgccacg gccgacgcgc 120
 tggccaaata cttcataggt agcgtgctga gcggcgagg cagcgtgcct gctcctcagg 180
 cgtctgctca ggcttgggccc gccatggtga ccgagatgca gaagggcgct ctttctacgc 240
 gtctgggtat accgatcatc tacggtatcg atgcagtgc tgggcacaac aacgtctaca 300
 aagctactat ttttcctcac aacgtcgggc ttggagctac cagggaccct gacctcgta 360
 agagaattgg agaagcaact gctcttgaag atagagctac tggaattcct tacgcctttg 420
 ctccctgtat agcgggttgt agagatccaa gatggggacg ctgctatgag agct 474

<210> 36111
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-051-Q1-K1-E1

 <400> 36111

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 gcgtgcttcg gcgggcccgtt cgaccctaag tcacgctcgc ctaccgtgct caccattgcc 120
 ctcgctgtcc tgggtgtcat ttttctcatt gcctacttca acagcagccc aggtgtaact 180
 gttacgagca aagagactgt gaccaggtct gaaggttctt gcacatcaga agttatgcgg 240
 gcgcttccat atcttaagaa ggcatatggc aatgccatgc aaaagggttct ccatgtaggc 300
 cctgatagtt gtacagtagt ttctaacctg ttgaaagaag gaaagggttga agcatgggga 360
 gtggagcctt atgatttggg ggatactgac agtacttgca aaagactcgt gcgcaagggc 420
 tttgtccgta tgtctgatat taagttcccc c 451

<210> 36112
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-051-Q1-K1-E10

 <400> 36112

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 ggcttcagag gtagcaccag caaaccatc tgtggttctc caacagccag ttcctactaa 120
 tttctectct caggcacctc aggctgcccc tgcattttct tattcacaag ggcctcatcc 180
 tgggtgtgcc atccagtctc aatttcgcca gactgtcgcc ccatcatttc ctcttcgca 240
 ggtgectcaa tctgtaacac ccaatctgcc accaggccaa tcgaacttct ttttgcaatc 300
 agcatcaggg tctggtattg acagcctgtc tggggttcct acccagaatg gagcaccatc 360
 ctacattccc ccacagaatt ctcagttcac tgctccggca aatcaacaac catcgagcc 420
 aagcttcctt ccacaaacta gcac 444

<210> 36113
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-051-Q1-K1-E11

 <400> 36113

 atccaggaca cggagggcat ttctacggat ttgcagcggc tcattttttgc cggcaagcag 60
 ggggaggacg ggcgcacgct ggccgactac aacattcaga aggagagcac cctccacttg 120
 gtgctgcgtc tcaggggtgg catgcagatc ttcgagaaga cacttactgg caagacgac 180
 acccttgagg tggagtctc agacaccatt gacaacgtca aggccaagat ccaggacaag 240
 gagggcattc caccggacca gcagcggctg atcttcgccg gcaagcagct ggaggatggt 300
 cgcaccttgg ctgactacaa catccagaag gagagcacc tccacctggt gctccgctc 360
 aggggtggtg tgcagatttt tgtgaagaca ttgactggca agaccatcac cttggaggtg 420
 gagtcgtctg acaca 435

<210> 36114

<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-E12

<400> 36114

tcacggtgtc caccgtgac ttgtacaagt ttcagacgga cgcgtcggcg tggggtgccg 60
gcgcggcgctg cggcggcgctg ggggtgctgg gcatcgccctg ggcccttcggc ggcattgatct 120
tcgtcctcgt ctactgcacc gccggcatct cggggggcca catcaacccc gccgtcacct 180
tcggcctctt cctggcgcgc aaggtctccc tgggtgcgcgc gctgctctac atcgtggcgc 240
agtgcctcgg cgccatctgc ggcgtcggcc tcgtcaaggc gttccagagc gcctacttcg 300
acaggtacgg cggcggagcc aactcgcctc ccttcggcta ctcccgcggg accggcctcg 360
gcgccgagat catcggcacc ttcgtgctcg tctacaccgt cttctccggc accgacccca 420
agcgcaacgc ccgcgacttc cacc 444

<210> 36115
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-C8

<400> 36115

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ggcaacgtgc agcttcagtc ctgaaagttt tatcggtagg ggatcggtag gccgtgttta 120
caaagccaaa ttcggtgac agaaggtcat ggctgtaaag aaaataaact tgtctgtatt 180
tccaagccat ccttcagatt tgttcattga gttggtcgca aacatttcaa tgttaaataca 240
tccaaacctt gctgagctcg ctgggtactg cttaaagcat ggacaatgct tgctggcata 300
tgaattctac cgaaacgggt ctcttcatga ttatcttcat ctgaatgatg aacacatgat 360
gccattgtct tggaacagcc gtgtcaagat tgcgctagga tctttgagag cattagag 418

<210> 36116
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B10

<400> 36116

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ggcctggctg ctggcactgt agcaaacgac cagatcttca ccacttcagg tttgccattt 120
gggcgaagtt cgcgtgagcc aaggtaccgc gtcgagttcc atcctgttga ttcgccattc 180
catccagaga atggtcagga atcggtagca atggctagtc atgaggggaa gcgttataag 240
tgctttctac cagttgaaga aactaaaacc atgaagtcaa tgctcccaca aaatgcgact 300
aatattataa tagaaagtga aaggcgaatt aagccaaagg agccggatga gttacttgag 360
gttctcaagg atcagtgttt ctacaggcac gaaggttggg ggtcgtatga attcttgtat 420
tatgggaaaa tcagac 436

<210> 36117

<211> 68

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B12

<400> 36117

cggacgcgtg ggaaaaaaat taaaaaaat ttttaaaaaa aaaaaaaaaa aggggaaaaa 60
gaggggaag 68

<210> 36118

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B2

<400> 36118

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ggaggcacia gccgacatat ggcggctcag cctctcctac ctacgcccc tgtcactgag 120
gtgcgccgtg gagcttggca tccccacggc gatctaccgc catggcgggg ctgcctcagc 180
cgctgagctg gtcacggcgc tgtctctccc ctccactaag ctgccgttcc tccgccgcct 240
gctgcggctc ctgcgccgtg cgggcgtgtt caccgtcgac aagcagagca cggaagaaga 300

gcgggtaccgc atcagccccg tgctcctacct cctgggtggac ggcacccctc acgaggacca 360
catgaaccac accgctctgg tgctcacctg cacctcgacg cgctacatcg aggcgggggat 420
agggctggcg gagtgggtca agaggga 447

<210> 36119

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B5

<400> 36119

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tgccctactg ctctgtaagg acatataaaa ttgggtatttg tactttctaa ggttctcctt 120
ggaatggtag agttttacag ggaaccttcc atcatcagtt gctgacatag ctogaactcg 180
acgtttcttc ttccgccagt gcggtctctg ataaactcga agctgacctt tccaagtctg 240
acgacggggc cttcttctta ggccaattca gcttggcgga tgtagcgtac attacgattc 300
tggaagggt tcagatatac tattcccatc ttaggaacta cgacatcgcc gaaggcaggc 360
ccaacctcca ggaattcatc gaggagatga acaagattga agcgtatgcg cagaccaaga 420
acgatcctct gttcttgctt gatcttgcca agaa 454

<210> 36120

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B6

<400> 36120

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gccgtactac ccggtggcgg gccgcatcgt ggacgcgagc cccggggagc ctgtgggtgga 120
gtgcaccggg catggcgtct ggttcgtgga ggccgctgct agctgcgcgc tcgccgacgt 180
taactacctc gagcgccctc tgctcatccc caaggaggag ctctcctgc gccctccgcc 240
cgaggagaag ctgaggacc tcgtcctcat ggcacaagtg accaagtctg cctgcggcgg 300
gttcgcggtc gggatctgct tcagccacct ggtgttcgac gggcatggtg cggcgcagtt 360

cctcaaggcg gccggcgaga tggcccgag gctgacggcg ccgtcggtcg cgccggtctg 420
 ggaccgcgac gcgatccccg acccgtc 447

<210> 36121
 <211> 468
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B7

<400> 36121

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 ggccaacgag agtccgtct ccgccgagga ggaattcaac attgagaagt tgcagcttgt 120
 tgaagctgag aaaaagaaga tcaggcaaga gtatgaacgc aaagagaagc aggttgaagt 180
 acgcaagaaa attgagtact ctatgcagtt gaatgcttct cgcatacaag ttcttcaagc 240
 tcaggatgat ctagttaaca aaatgaaaga cgatgccatg aaggaaacttc tccttgtcag 300
 ccacaaccac catgaataca agaacctttt gaaagaccta atcattcagg gtttgcctcg 360
 tttgaaagag ccagcagtat tgctccgttg ccgcaaggat gatcaccatc atgtggaatc 420
 agtgctgcat tcagcaaagc atgagtatgc atcaaaagca gatgtcca 468

<210> 36122
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B8

<400> 36122

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 gttgagcagg cactgagca ggaaattctt gttactggaa tcaaggctcg ggatcttctt 120
 gcaccctacc aaagagggtg aaaaattggt ctcttcggtg gtgcaggagt gggtaaaact 180
 gtgctcatta tggagctgat caacaatgtt gctaaggccc atggtgggtt ctctgggttt 240
 gctggtgttg gagaacgtac ccgtgaaggg aatgacctgt acagagaaat gattgaaagt 300
 ggtgtcatta agctaggtga caagcagagt gaaagcaagt gtgctcttgt ctacgggcag 360
 atgaatgagc ccccggtgct tcgtgctcgt gttgggttga ctggtttgac tgttgctgaa 420

catttccgtg atgctgaagg acaagatgt

449

<210> 36123

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-B9

<400> 36123

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gggatgatcg ccggcgggag cagccactg tacaggggag gcgagggctg cggcgccctgc 120

tacgaggtga aatgcacgac caacgccgcg tgctccggcc agcccgtgac catcgtaatc 180

accgaccagt cccctggcgg gctgttcccc ggcgaggtcg agcactttga catgagcggc 240

accgccatgg gcgccatggc acggcccggc atggccgaca agctccgcgc tggcggcgtg 300

ctcaggatcc tgtacaggag ggtgccgtgc aagtacaccg gcgtcaacat cgcgttcaag 360

gtggatcagg gcgcgaaccc gtactacttc gacgtgtca tcgagttcga ggacgac 417

<210> 36124

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-051-Q1-K1-C1

<400> 36124

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cgacgatgcg ggctcgggtt ggagagaggc tgcccaagtt caccgcagac gatgctgccc 180

ttgtcaaggg ggccctggac ttcatgggca taaaccacta caccactttc tacacgaggc 240

ataacgacac caacatcatc ggacggctgc tgaacgacac tttggcggac accggaacca 300

tcagcctgcc cttcgacaaa aacgggaagc ccattggaga tcgggctaata tcgatatggc 360

tgtacatcgt acccagcggg atcaggaagc tgatgaacta tgtcaaggag cgggacaata 420

tccaacggt ttacatcact gaaaatggga tg 452

<210> 36125
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-051-Q1-K1-C11

 <400> 36125

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 agtggcaatt catgacgggt cggccggggg gggtcgtgtg ggtggcgcat ggctcggcgg 120
 aattnaagaa aaggctggct tgcaagacag actccctggc cagtatacgg gtgattaacc 180
 aaaacaaatg cacgtccaac acacccaaat acagatttgt tgtgcgattt accaacaagg 240
 acatcactgg ccaaatacata tctgctatta tagtgggcga tatgggtttt gcttctgcct 300
 actcccatga gctggcacca tatggtcttg aagattgtct gaccaactat 350

<210> 36126
 <211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-051-Q1-K1-C2

 <400> 36126

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 ccgtactcac acaataggct caagaggggc cttatttcag gagccactgt atgggagggg 180
 ctaatggagc tggcatacta cattcttcgg agtgccaata gactcgaaag tatggtctta 240
 gatccaaaga taaggattgg gggtcctcag ctggatgggt ggatgattga tattggtagg 300
 gagacgatca aaaatatattt tgaggagagag gagtttcaga gcattattac tattctgtaa 360
 gaatggtaag ataggccaca ggattttggg ggtcacacca agtggccatg tttgattatg 420
 ccataagttt gaccagtatg gtcataaatg tt 452

<210> 36127
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-C3

<400> 36127

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gtggcacctc agcaacgtgc agacctggtg cagcgcccgcg ctcaccgacg aggacacctg 180
cctcgacggc ctctcgctcc gcgccgtcga cgccggcacg cgcgccgcca tccggggcaa 240
ggtcgctgag gtcgcacagg tcaccagcaa cgcgctcgcg ctcgtaata aggtcggggc 300
tgggtactaa cacggggagg ggacccaaga tccaggccca ggcccagccc aggtaccaca 360
cccgtacta gtatagtact aggcgccttc accttcacgg cgttgggtgt ttctcgccg 420
ttaatagctc ggtttgcttt gctt 444

<210> 36128

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-C5

<400> 36128

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tggagacgct gcttcgcgcg gcaccgctgg ggctctgctt ggccgccatg accgtcatgc 180
tccgtaacca gcagagcaac gactacggcg ccgtcgcta ctccgacctg ggaggcttca 240
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ctgccgtgcc gaggcctgcc accgtgtcgc gctcctggct cgtcttcttc ctcgaccagg 360
tgttcacgta cctgatactg gcggcgggcg cagcggcggc ggagctgctg tacctcgctt 420
acaacggtga caaggaagtg acgtgg 446

<210> 36129

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-C6

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 cgggaggcgg ctctttctgt ccgccgaggg ccggtcgacg gctgcggtga ggacggcgca 180
 gaaccgcgtc gaggagtctt tcgaggtcga ggcgagcacc gaggagggca agcctcctcc 240
 ccactacggg ccgagctgga aggccttctga actgcgacta aaatcttggg atgaccttca 300
 gaaattgtgg tatgttcttc taaaggaaaa gaacatgcta atgacacagc gtcaaagtgt 360
 gcattcagag agcatgaggt tcccaaattcc agaacgaatt tccaaggtaa agaaatcaat 420
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<210> 36130
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-C7

<400> 36130
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 ccgcccattg atcgggctcg cggatccgcg ttcctgctcg gcgtcctgct cgcaggatcc 180
 ttgttcgctg tttcagttgc taaagaggag accaagaagc tcgggaccgt gatcggatcc 240
 gatctcggta ccacctactc ctgtgtcggg gtctacaaga acggtcatgt cgagatcatc 300
 gccaatgacc agggtaaccg tatcacaccc tcattgggttg ccttcaccga tagcgagagg 360
 ctcatcggtg aggctgccaa gaaccaggca gccgtcaacc ctgagaggac catctttgac 420
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<210> 36131
 <211> 456
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-051-Q1-K1-B1

<400> 36131

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 attgttcctt ttagccttgg cacctgttat ttttaaactt ttatgaattt tgtctcttta 180
 ttttgcccaa aatacccttt tcatatttcg gactcataga acttcaaagt tctcagtgtc 240
 gcacatatta tggagctgca ggacttcaat tgtctttag cctagtttca gttaaaacat 300
 ggtaatttgg atatttcgtc atgattacat cggatattat gttggtgtcg ggcaattaca 360
 tatattttgt gtttaaaagt tagccctggg aatagtgaat tcttggctat gccaccggta 420
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<210> 36132
 <211> 171
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-050-Q1-K1-H5
 <400> 36132

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 ggtggcttca tttaaggacc gatgtgtggc atcaaaccct ccgctattca tccgcttgta 120
 catgtcatgc aagcttgctt gctgggactg atgcgcgaca cctcccttta a 171

<210> 36133
 <211> 449
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-050-Q1-K1-H6
 <400> 36133

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 cgcacatgca tcggcagcgc gccagctcca tagtgtagga ggagatggcg ctcaacaaga 120
 tcggtcttgc tggccttgcg gtcattggggc agaaccttgc cctcaacatt gcagagaaag 180
 ggttcccat ctctgtgtac aacaggacaa ccttcaaggt ggacgagacc gtgcagcgtg 240
 ccaaggcaga aggaaacctt cccgtctacg gcttccatga ccccgctcc tttgtgaagt 300
 ccattcagaa gccacgggtg gtgatcatgc tcgtcaaggc cggcgcgcca gttgaccaga 360

ccatcgcgac gctcgcagct cacttggagc agggcgactg catcatcgat agggggaacg 420
 agtggtacga gaacacggag aggagggag 449

<210> 36134
 <211> 460
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-H7

<400> 36134

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 accctcgcgt cttcttcgac atgaccgtcg gcggcgcccc ggcgggcccg atcgtgatgg 180
 agctgtacgc caacgaggtg cccaagaccg cggagaactt ccgcgcgctg tgcacgggag 240
 agaagggcgt gggcaagtcc gggaagccgc tccactacaa gggctccacc ttccaccgag 300
 tcatccccga gttcatgtgc cagggcgagg acttcaaccg cggcaacggc accggcgagg 360
 agtccatcta cggcgagaag ttccccgacg agaagttcgt gcgcaagcac accgtccccg 420
 gtgtgctctc catggccaac gccgggcccc acaccaacgg 460

<210> 36135
 <211> 498
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-050-Q1-K1-H8

<400> 36135

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 gccttcacca tctccaactg caaccccacc ccatgccgac gtcgactgag ctaggggtttt 120
 ggagtgagga tcgccgatgt cgacggctcc caggcgcccc ttccgaggcc gcggcgcccc 180
 gccccctggc accggctacg tccgccgagg ccccgccccct gcccagggc ccgccgacgg 240
 cgccaagacc ctgcgcaagc ccgtcttcac caccgtcgac cagctgcgac ccagacgca 300
 cggccacacc ctcaccgtcc gcgtcatcnt ccgccgcacc gtcctcgaca agcccttcac 360

gcacatcggc cgcacccgcg tcgcaaagtg cctcgtcnga gacagcacgc gcaccgttct 420
 cgtcacgcgc cgcaacgaac aggttgacct tctgaagcca gataccacag tgatcttccg 480
 caacgctaag aatgacat 498

<210> 36136
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-H9

<400> 36136

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 tcatgtactg ctgctcccca tgcgcctcc actcgagctc gactacatag agcctctcgc 180
 cgccggcggc agccgctgcc gctgaaaacg acgaactgaa gggactagag ctccgactcg 240
 ggctgccagg gtccgggtcg ccggaccgcc gtgtcgcggc tgtcacgcgc accaccctgg 300
 acctggtacc gccaaaggcg ccaagcgcg gttttctga 339

<210> 36137
 <211> 197
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A1

<400> 36137

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 gcaccggtct ctctgctcc agtggcttgc agatcaatat caatccctgc ctgccttggc 120
 accaccacca ccaaccagca gcacgagcat gacacattgg ctggcttcag tctaaaaaaaa 180
 acccccagat gccatgg 197

<210> 36138
 <211> 463
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-051-Q1-K1-A10

<400> 36138

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ttgctgatcg agacagcatc ggtttagaat tgagacagtt aaagagaaaa agagaagatg 120

aggagttgca tgtggagcgt aaaaaggcac agttgggttg taccaagaaa atttctattg 180

acaatagtca tgcagctgct gtggatacct ctgagctagt agttgaaatg atgcaagtga 240

aggaagacat tgagaaccaa gaattagttg tgcagaaaat taatttgaaa cttacagatg 300

ctttgcaaga agagaataat agaagagcgt cttacaagga cttcattgag tctgtacatg 360

ctgaaatggg gtctattagc gatgctgagc gtgaattgca gcttggtgaa gaaaaaatac 420

atgatgctga gcaagagaag gctcactatg aacgtgttat gga 463

<210> 36139

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-051-Q1-K1-A11

<400> 36139

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ggcccgtctg atcggccgcc gccaatgca atgacgccga tgtagccaag cagatccagc 120

agatggtgcg gatcatccgc caggaggccg acgagaaggc caacgagatc tccgtctccg 180

ccgaggagga attcaacatt gagaagctgc agcttggtga agctgagaaa aagaagatta 240

gacaagagta tgaacgcaaa gagaagcagg ttgaagtacg gaagaaaatt gagtactcta 300

tgcaattgaa tgcttctcgc atcaaagttc ttcaagctca ggatgatcta gtaaacaata 360

tgaaagacga tgcgatgaag gaacttcttc ttgtcagcca caaccacat gaatacaaga 420

acctttttga agatctaata 439

<210> 36140

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A2

<400> 36140

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ggacaaggga cctgaaaagg ctaaatacagg cgcagataag aaaaataggc caaaagatgt 120

ttttggtcgg ccattggcaa cagaacaaga atttgaagtt ctcaagaatg ctccaagggt 180

agacacaggt gtcctgcaa gggcacaacc atttggagtt gaagtctgta atgtagatg 240

tttaagggtgt ggaaactatg gtcaccaaag tggtagaccg gaatgtccct tgaaggatgc 300

aatcatgcct aacgaggaga gtctgttgaa aagagacgat ccacttaca ctataatggc 360

gcatacggat tcaagtgagc ctttgaagtg ggaacttaag cagaaaccat gcatgagccc 420

tcctcgtggt ggatttgacc cagatgat 448

<210> 36141

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A3

<400> 36141

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tgttttgggt tttttttttt agcttcggga gggcctgcac attttgctgc acaatatgaa 120

aataaatctt ccaggatctt gatcgagta gatgaccaga aagtagcatg gacaatttgg 180

aaaaaaaaatcc aattggaatc taccgttctt gattcattaa ttttaacctt gcctaacgca 240

tttcagtcta ctatattgggt acttgacgtt tcgatttatg tgcactcttt gatcattctg 300

taattcttgt aacatggtat tttattgcca tctgaaatgg tccacaacca gcaaatatag 360

tt 362

<210> 36142

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A4

<400> 36142

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 tgccattcc tgaggaatat caatggagct acaacctttt cctcgttc tgctttgcca 180
 gtagctgctc aaggaggcaa ggtccaatt tttgaggaag ggtcaggctt tgagtcagca 240
 ttcaagcttt tccatggccg agatggaata gttccccttt cagaaagatc atatgtatct 300
 gatgaaaacc acaatgagag cattgatgtc aggactgaac ctgctctgcc gtttaatcca 360
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<210> 36143

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A5

<400> 36143

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 gaacctctac atcatctacg acaagggcat caagggccgc ctcaacctga tcccgtcgc 180
 ctgtgtccgc gacatggta tggccaccgt caagaatgga aagcccgacc tcaagaagaa 240
 agtgatgccc gtcgtcatcg ttcgccagcg caagccgtgg cgtctcaagg acggtgtcta 300
 catgtacttc gaagataatg ctggagtgat tgtgaatccc aagggtgaga tgaaaggttc 360
 tgcaatcact ggacctatcg gcaaggactg tgctgacctt tggctctacga tcgtcagtgc 420
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<210> 36144

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A6

<400> 36144

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 ggttcacgc ttcctaaaac acctccatgt gttggatcaa agagaatttc cgagaacagt 120
 gttgctagaa gattctcgac cgggactcta tctacgatga aatctcatag caatgcacct 180

gcaaaatcaa acggtttatc taggactggg gtacaaagaa aacttcactt ggatcgtcag 240
ccaccgcaga agagtacaaa accgaccgag aacagcaata agctagctac aaatcggggtc 300
ccagcccggga acagcccattg gaatcctgta cttaggcatt cacgcagctt gcctgaaact 360
ggtcgacgag cagtacagaa ggtctcatca atcacagaga aactgtcgca aatgtcgggtg 420
acctccagaa cacgaagcgc cgtg 444

<210> 36145
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-A7

<400> 36145

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catggagctc gacggcgaca acctgagcgc caccgagctc cgcctcggcc tgctggggac 120
cagcagcagc agcagcgacg actggcagaa gaagccgtcg ccctccgtcg gggccaagcg 180
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cgacttcgac cagcaccacg acaccgtcgc gccttccaag gcgcaagtgg tcgggtggcc 300
gccggtgaag gcgtacagga agaacacctt ccaggcggcg gcggcggcca agaaggtcga 360
gcagaagcag aagcagcagc agcagggagg cctgtacgtg aaggtgagca tggacggcgc 420
gccgtacctc aggaaggtgg acctncggat gta 453

<210> 36146
<211> 465
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-A8

<400> 36146

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cagttggatg ctgataccca ccgcaggtac atctatgggtg gccatgttgc tgactacatg 180
aagaaccttg ctgaagagga ccagaaaaag taccagagtc acttcagtgc gtacattaag 240

aagggagttg aggctgatga aatagaagcg ctgtacaaga aggtccatgc tgccatccgt 300
gccgatcctt acattgttaa gtcaaccaag cagccaccaa aggagcataa gaggtacaac 360
ccaagaagc tgacatatga acagaagaag gccagcctca ttgaaaggct caaccaactc 420
aactgcttcg gtggtgctga tgacgacgat gaagacgacg aagta 465

<210> 36147

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-H4

<400> 36147

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acaggaagca aagtgggagc ttagcggttc gtgatctttc caatctggta aaaccggagg 180
atatgatcac ctcggaacat ctctgacac ttcttgcaat tgttcccaag tactcccaaa 240
aagactgggt gtcaagctat gagaaaattg acacattcgt ggtacctagg tcctctaaaa 300
agctctatga agacaatgaa tatgctctct acactgtaac act 343

<210> 36148

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G1

<400> 36148

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tgtgccactc cactcgggc cgtcccacca ccgggaggcg ctaggctact atgtctctgc 180
cctagcctag tcgccgtcgc gtcgtcgcag caccgagcga atgcgagccc aacatcacag 240
cgctcatgtc aagggcgcg gcaaggcttt ctctcgtcgt ctggacaagt tctacgacgc 300
gct 303

<210> 36149
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G10

<400> 36149

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ccaaggacac ctcgccggac gaaatccgcg ccgcgtagaa gaacctcgtc aagaagtggc 120
accccgacaa gcacccgccc tcgtccaggc cggaggccga ggcgcgcttc aaggccatca 180
gcgaggccta cgaggcgctc ctggaccagc aggagaacag gggcggtgtc gagctgtgca 240
acgacggccg ggcgggtgag aggacgcgcg gcgccttcgg cggcgccggc ggcggcggtg 300
gcgaggagg aggaggcctc ggcgcggcg tcggggcgcg catggagagg acgcgacgcg 360
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<210> 36150
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G11

<400> 36150

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ctcgatccgc agagcaaagc gaaagcagca agaagcaaag caatggagaa ccttgcgagt 180
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gccgggccgg gcagcatgga gataaccgag gagggcaggt gcgacctgga caggagatac 300
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caagggatca ccagccgaaa tcggaacgcg caccaactgt tcgtcg 406

<210> 36151
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G12

<400> 36151

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cggtgccact cgtttgccag ccaccgagtc atcggcaa at gaactggcgg ggtaccgagc 180

caagcaggaa ggccagtagc acacacgcag aagaagaaca cggcggggcca tgcacgccaa 240

aaacattgaa gtcttcagtt taccaacaca catgtcatga agcaaaacag cggggactcg 300

tccatgatat acaggttcct ggtacagatg cagagtggcc atgggacgga gagtcggata 360

gacaggacac cgggtgtgtta cgctagggct ggctggctga cgacgtg 407

<210> 36152

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G2

<400> 36152

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cgccggggct gccggcgccg gcgcgcagca gggcgtgtgg agcatcatca cccggcccat 120

gttccagagc atgctgagcc accgcggcga cagcgggtgc cagggcgcct tctacaccta 180

cgacgccttc atcgaggccg ccagcaagtt ccccggtctc ggcaccaccg gcgacgagca 240

gacgcgcagg cgggagctcg ccgccttctt cggccagacg tcccacgaaa ccaccggtgg 300

atgggcgact gctccgatg gaccgtttgc ctggggatac tgccgggtga aggaacagaa 360

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caggctcgcc gggcaagcgc tg 442

<210> 36153

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G4

<400> 36153

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gcgtggetcc tcccccttcgc cgccgccgtc cttgtggtgc tcctcgctgg cggcgccgcg 120
gcggacgatg cctccagcga cgacgacgct gggacttcac ggacaccgg ctgctccaac 180
aagttccagc tggtaagggt gaagaattgg gtgaatggga ctgaaggtag aacttttgtt 240
ggcctaagtg caaaatttgg agctcccttg ccaagagata ttcataagc aaaaaagtca 300
tttgcgtgcc tctcaaattc aattgactgt tgctccaact tgacatcaaa gtaacaagt 360
tcagttgcta tagcaacacg tggggaatgt gctttcacgg aaaaagcaaa tattgctcaa 420
gccagtgggt cgaccggttt actagttatc aaagataatg aagagct 467

<210> 36154
<211> 461
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-050-Q1-K1-G6
<400> 36154

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cggcggcggc ggtcctggca gcggcgctgc tgctgctggc ggcgggggcc gggacggcgt 180
cggcggcggt gagctgcggc gaggtgacgt cgctgggtggc gccgtgcctc gggtagcga 240
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gcgcgtcgtc ggcgggcgac cggcaggcca cctgcaactg cctcaagagc atgacgggcc 360
ggctcgggcg cggcgtcagc atggccaacg ccgtcaacat ccccggaag tgcggcgtct 420
tcgtcggtg gccatcagc cccacgtcg actgcaccaa g 461

<210> 36155
<211> 460
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-050-Q1-K1-G7
<400> 36155

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tgcccgctcg ctctcctcc tcccagccgc agctggctcg ggcgggcgcg gtcctggcag 120

cggcgctgct gctgctggcg gcgggggccg ggaacggcgtc ggcggcggtg agctgcggcg 180
 aggtgacgtc gtcggtggcg ccgtgcctcg ggtacgcgat gggcagcgcg gcgtcgccct 240
 ccgcggcggtg ctgcagcggg gtgcgctcgc tcaacagccg cgcgtcgtcg gcggcggacc 300
 ggcaggccac ctgcaactgc ctcaagagca tgacggggccg gctcggcggc ggcgtcagca 360
 tggccaacgc cgtcaacatc cccggcaagt gcggcgtctc cgtcggcggtg cccatcagcc 420
 ccaccgtcga ctgcaccaag atcaactgat cgatggaacc 460

<210> 36156
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-050-Q1-K1-G9
 <400> 36156

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 gctggtcact tctttggaca taaggcaact agtgccgggc tcaaggagca ggaagcaata 120
 aattttctgg agaagaaaat gaaggatgac ccgaaattca cctatgacga aactgtgcag 180
 attgcaatat ctgcgttgca atcagttctc caggaagatt tcaaggccac tgagatcgaa 240
 gttggtgttg tgagaaaaga tgaccgcgtt ttcagagctc tcacgacaga ggagatcgat 300
 cagcacctga cggcaattag tgaacgtgac tgagatgtca tatgctgcac atttcagcgc 360
 tgcatacact gcgccgtgcc attgtgcttc ggcagtcaat taagtttcat agtcatcata 420
 ggaactgagt gtaccatttc 440

<210> 36157
 <211> 287
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-050-Q1-K1-H1
 <400> 36157

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 ccgatgatac cgcccagaac agcaagaaca gacctgtcca cagcagcaac gactacctga 120
 tcgacaggac ttacaccgac actgctggta tgtctatcat gtacgttacc gatctcttca 180

actcgtaaga cttcgagcac gacaagttca atgacttgct ccacgataag aacggtatca 240
 caatatacgc gaccatggta tacaaccaga gatgcattat aaagtaa 287

<210> 36158
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-050-Q1-K1-H10

<400> 36158

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 acttcatgcc atcataagaa acgcgaagag ctgatgatgc tagttgtgtc agactaggga 120
 caatgtttgc taaatactgg gtctagttca gtcaagccac aggaacctga tccnaaatgc 180
 tttccaagtc ctctgttttc ggctgcgaa cttctgaaac atctnggaca ttcaattggg 240
 gagctttctt atggctcagc naggctgcat atncctgcat atcgaaactt atgactatca 300
 gccattcaaa tgccacaagc ctgctgctca aacagctgcc tatggcgctt atccttcaac 360
 atactctggt caggcctata cacaacaaag ctacacacaa cctgcaacaa t 411

<210> 36159
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-H11

<400> 36159

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 gaagagagcg agccgaggat ggcgtcaccg aagccctcgt cggcgggcct gctcctactg 120
 gcggcgggcg cgtgctggc gctggcgcg gcggacctga cgcacgacaa ctgctgaag 180
 aacacgaagg tgacggtgca gaacctgtgc agccacgacg tgacgctgac gctggagccg 240
 atggccaaca gcccgtcgt gttcgcgggc acctacacgt tgcacccgcg cagacacgcc 300
 gagttcccc 309

<210> 36160

<211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-050-Q1-K1-H12

 <400> 36160

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 gtcgtccgcg tctccacgc cctcgtcgtc ctctccaca ccgcgcgcgc gccggtgttg 120
 accacccac ccgttcctcc cccaccccat cagcgtgga gccggcggtg cgtaagtccc 180
 ccggaccctt ccgcggcggc gccggcggc gccgtatgcc agaggcttcc aggtttcatc 240
 accgggtctt gctggagtta tagcattttc aggcaggata tggagtaca 289

<210> 36161
 <211> 124
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-050-Q1-K1-H3

 <400> 36161

 tcgcggaaag gctgttttgc ggtgtgatcc ggtgtcgttc tttttgttgc tgagaactgc 60
 tttgggttgg tgtatcagct tttgatgccg ggtaaaacgc ctgtgagctg tgatgtgatg 120
 cttc 124

<210> 36162
 <211> 459
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-050-Q1-K1-F8

 <400> 36162

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 tagggttctg gcgatggcg acggcggcta cccacgccgc gccgccgcgc tacgcaggcc 120
 caagtctcg gcctctgccg cagttgccga ccgcaagcgg aagcggaccg ccgtcgtcgc 180
 caagaccacc tcccttaaga accagatccg ctccaccgag cgcttctctc gcaaggacct 240
 tccgatgag attagggttg ctcaagagaa gaaactggaa gaactgaaga ggcaacaaga 300

gcttcagaat caacttgctg tccagcggac attacagttt agagatagaa agataaaaatt 360
ctttgagaga cggaagattg agaggatgat aaggcgactc gagaagcaac aacgttcaaa 420
tggggatggt gtcaacaata atctgtcaaa attgcgaga 459

<210> 36163
<211> 386
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-050-Q1-K1-D9
<400> 36163

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ggggacattt tacataaaaa gcggtacca ccaaaactat aaacaaaaca cttgaatatt 120
gaaaggctac cacgtttctc gaggtccgga tcatgggtcaa aaaccatgat cctaaccgtt 180
cattctcatg aagggtcta tgcatttcta ggcagtcac ttttcacagg gatgattgct 240
aaaactctcc atgacaccta tttcaatgtc ttgaaatagc attcacttct attatgatgc 300
acctatgtag ataagggtccc agcgcatgtg acttttcaac tgctgactca tataattggg 360
aatagtaccc ccccttatgg ttgctt 386

<210> 36164
<211> 442
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-050-Q1-K1-E1
<400> 36164

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tgctatttgg ggtgggagggt tttgtggcct gcagagctct ttcacagaga aacagtgatc 120
cagcaaaagc ttctcgacct tgggatgtgg atcgtgatgg atttgttatg ggagaagggt 180
ctggtgtgct tgttttggaa gaacttgagc atgcaaagca aagagggtgca gaaatatatg 240
ctgaatttct aggaggaagt ttcacatgag atgcatacca tatgacagaa cctcatcctg 300
aagggaaagg gggtatttct tgtattgaaa acgcattatc agattcagga gtaacaaagg 360
aggacattaa ctatataaat gcccatgcaa catctacaca gatgggtgat ttgaaagaat 420

ttgaagctct caaccggtgt tt

442

<210> 36165

<211> 130

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E10

<400> 36165

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atttattaac atggacaccg acacaaaaca tcctgacccat catcacaact accttctgac 120

tagcttatta 130

<210> 36166

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E11

<400> 36166

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ggtgctctgt acaaggggtct tgtgccgaac tcagtcaagg tgggtgccctc aattgccatt 120

gcatttgtga cttacgaggt tgtgaaggat gtgctaggag tagagatgag gatatcagac 180

tgaggatggt cgttttcaac tgctattttt gtaggctttg ggaagttgtg tttttttgta 240

ggcagggcgg gtagaaggat atgaccgcgg ctccattcag catcagccca tgttggatat 300

atcatatatc ctgccactgg ctttaggtcc tagaattggt tgctgggtcg tgcaaaagta 360

ataaagtcgc tgtaaagctt attaagcatt tgctaactta tcaaagaaat ctatt 415

<210> 36167

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E2

<400> 36167

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ggccgaacag gcagagcgac cagtctccag agcgctcccc atggcgctcag gagctgcggc 120
 ggccccctgtc gttcagactg tggtgctgaa ggttgccatc cactggcatg gctgcaagaa 180
 gaaggtccgg aaggtgctca agggcatcga aggcgtgcag gacgtgacgg tggacgcctc 240
 gcagcacaag gtgactgtga cgggcaccgt ggacgccgac acgctcatca agaggctgta 300
 caagtccggc aagaaggag tgccctggca gtgtcaccg tccgccaaga acagcgagcc 360
 cgcg 365

<210> 36168
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E3

<400> 36168
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 taactatgac tttcgggggt gcccgggtgt ctactgctgg ggtcaaccat gcctgacaat 120
 tggacaatca gacatccatc gatctaacac cgtgaagata tactgacca agagggaata 180
 catttactac ccacgggtcca agtaccatga cattcactgt acatactttg ggacaacgtt 240
 cctcatctg ttactgatga cttactatca cctaaagcca cagaagcttt ccaatcacta 300
 tgttccctcg agtttttcgc tttaagctgc acacaccatg aacctcaagt atttgcctt 360
 ta 362

<210> 36169
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E4

<400> 36169
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 ttgtgcctat gccattgata cacttggcag aaccaaacct tatgtccagt ccaaacgaga 120
 taatccccgaa ctttttcact tgaactacac tttagtatgg caatcaaaca tcccttgag 180
 catctacgag aatctttata aattgcacta tctaaattac catttaaaga gtcatttaca 240

ttaacacCGT gttctatata ttgtccatgt gcatcattat ttctatgtaa tgtatgtact 300
 acaacgagcc attcacgtgc agaactcttt ggctaacgat actccgtctc tacatgacta 360
 gtctattcac attactatTT aaataacttg tttgaagcta tttttatacc aacatctata 420

<210> 36170
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E5

<400> 36170

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 agtggatata ctatcggact atggattgca accataattg ataaaaggtc atacatcgca 120
 aaaatgacat aaataatact ctgacatata tgagcataca actagatcca tacaactatt 180
 caataattaa ataggetgaa cacatttacg tagatagatt actacattac agtgtcttac 240
 tgattctatc 250

<210> 36171
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E6

<400> 36171

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 tgcataagtt ctacaacgtg ttgattgagg agctgcctgc caatgttgct gaccttctgt 120
 gatcaatttc aagaaaaaac ataacaaaaa aggggtggtga ggaacctggt aaggcttggt 180
 tttgtcgaaa taccgtggga gaggggggtga ttaggacggt ggggtttcta tgttgaagtc 240
 gtggacatgg acaatttgtg attttttctc ctttatgcc a tgttttgaa tattttagtc 300
 tgcctatgcc tcgttgtaat gtgctgctgt ggtgggtc 338

<210> 36172
 <211> 462
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E7

<400> 36172

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cggaacacctc agtcaggcgg cgtgagggag ggagagttcg aggaccgagg cggcgctcggg 120
cgagatgaag cttaacgtca agacctcaa gggcaccaac ttcgagatcg aggcgagccc 180
cgatgcgtcg gttgctgacg tgaagaggat cattgagacc actcagggtc agagtaccta 240
ccgggcgagc cagcaaatgc ttatatacca agggaaaatt ctcaaggatg agaccacttt 300
ggaaagcaac ggagttgctg agaacagctt cttgtttata atgttggtcca aggctaaagc 360
atcgtcgagt ggagcttcta ccactactgc tgcaaaagct cctgcaactt tggcccaacc 420
tgctgccccct gtgccccctg ctgcatcagt tgcaagaaca cc 462

<210> 36173

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E8

<400> 36173

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tgaggagctg ttacgatgag ggcaagcgta cagccgaaac gttgaccatg gattaccacc 120
gtggtgccaa ccttgagggtt aggatcgcac gtatcttcaa cacatatggc cctcgcatgt 180
gcattgacga tggccgtggt gtcagtaact tcgttgctca ggcaactgagg aaggagccct 240
tgacggttta tggatgatga aagcaaacca ggagtttcca atatgtttct gatctgggtc 300
agggtctgat gaagctgatg gaaggcgagc atgtaggacc atttaacctg tgcaaccccg 360
gcgagttcac catgctggag cttgccaaagg ttgtccagga caccatcgac cccaacgcac 420
ggatcgagtt ccgtcagaac acccaggacg acccac 456

<210> 36174

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-050-Q1-K1-E9

<400> 36174

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tcagtccectt cgttcacccg gatccatcca gccagccagc cagccatggg cggcaaggac 120
tgcggcaacc acggcgagga cgacctgcgg cggctcgtgcc ggcgcctgct agcgatcctc 180
ctagtcctgg ccctgatcgt gggcgtgatc gcgctgatca tctacctggt ggtccgcccc 240
acgcacccgc gcttctacct gcaggacgcy tcgctgcagc agctagacct ctccaacgcc 300
accaccacca ccaccacctc cgcgtcctcg tccctcctct ccacgacgct gcaggtgacg 360
ctggcctcgc gcaacccgaa cgagcgcgtg nnggtgtact acgaccggct ggacgtgtac 420
gcgtcgtaca agt 433

<210> 36175

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-F1

<400> 36175

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ctaaaggaaa atggggccaa attcaaaagg ccatagacaa caacaaataa aaaaaaacat 120
ataaaacaaa ctaaaagggg 140

<210> 36176

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-F2

<400> 36176

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acgtgggtcaa gggcatcgag aaggtgggca cccgcaacgg ctccacctac aaggtgggtca 120
aggtcgtga ctgaggacag ctcttctaga tctctctgat ctggcctggt cggtcgacct 180
acctccgtca tcgctgactc ccctgcgtc cgttactttg gatctgaata agatgggtgg 240
gatctgaatg gtgggtcttag tacatcatgt atcgctcgca gtttaataata gcggtttatg 300

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321

<210> 36177

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-F4

<400> 36177

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agccaaagat caccagcggc atagggatct aaaacctggg attcatgac accctcttcg 120
acattctcat cccttgatgg caacaggcca acacaacaag acctatcat cactgaccca 180
atgctatttc cagagagacc ggtaagagc tcgccccaac tcaacagttc ttttgacagg 240
gacaatggac tcgactaccc tgatgatgtg cttaccaagt ccatgaacat gcccatagtt 300
caatccagcc tgccaactct tggcattaga aatcttgtga atgattcaat ctacaaagat 360
agccatgaat tgtcagtcac aattaacact gaacaagaag ttaaagatta cccatccaac 420
tgtggagatc aacctatgca aatgaatggg cctcaccacg acag 464

<210> 36178

<211> 284

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-F5

<400> 36178

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cggaatctc ccaaagtgcc atgatgcgtt catcgtcagt ggcttacact gtgctcctat 120
gctctgattc ataaccacac tccatgtgct tcatgctata gcagctgagc tctggcatct 180
tgattccgtg tacttacagt cttgaatagc tctcggacta tctaccatcc tcatgcccc 240
gttaaagcgt gtctcgggag gtccttcgcc ttgcagcttg atca 284

<210> 36179

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-F6

<400> 36179

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gcttcaagct gggtggctat gatccccacc agaagataga gatgaaaatg gcagtgtaat 120
ggtggcttgg ctggagcccc catcctatgg actcggtgga tgtaatcagt aggactggta 180
ctacataaaa attaacgga caccgcacta gcttggtttt ggtgatgggt ctgaatgttc 240
agtgggagac gttttctctg atttatcaat tgcgatttgc gtattatgggt cgcttaagtc 300
aactctacaa aatcggtccc cttttatctg gagccagttg attactcgat tgcgaatgtg 360
atggatgatc taagcatact ctggtgcaag ggcctactgg gtgtgtg 407

<210> 36180

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D8

<400> 36180

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gggtgcgttg ctcaagtgtt gttggaggag tggatcgggt gcagcaagtg ttatccatcg 120
gaaaacgtcc acatattgta gttggaactc ctggccgtct tttggaccat ttgacagaga 180
ctaaaggttt tagccttaag aaaatcaagt atttgggtatt ggatgaagct gataaattac 240
ttaatgtgga gtttgagaaa tcccttgatg acattctaag cgagatgcct aaagacagga 300
ggactttcct tttttcagcg actatgacca aaaaggtaaa taaactgcaa cgtgcttgtc 360
tcaggaatcc tgctaagggt gaagtgtcct ccaaattatc tacagtagat tcacttaaac 420
aagagttcta ttttgttcct gcagatgaca aggat 455

<210> 36181

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-C3

<400> 36181

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 ttataagcta tgggactgga agagcagaga gcaaccaagt atggaaaagc ctgttattgt 120
 gtccaaagat gaaagaaaaa tacttcttta tgaccttacc ccatgcacag aatattcttt 180
 cagagttata tcattcacag atgatggggt acttggccat tcagaatcta gatgccgtac 240
 tgaaagtaag gagatatttg tcatgcgtgc accaaagaat gcagtgggag gaggggctac 300
 acatgcgcaa aaaaaagaca ggaaccagtc ttgtaagtca actgggttca agatccgaga 360
 tatttgaag aacttttagg aagctttata tgcaaaaagc tgttttgaac gattttctga 420
 agatgtaca 429

<210> 36182
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-050-Q1-K1-C4
 <400> 36182

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 ccgtggtaga ggggaggatg ctgggggcta cgtgttgag gacgatgact agtatgacca 120
 ggatgcgcat gtggctcgcc ttgaggaaga gaacctgacc ctaaaggaga ggctcttctt 180
 gatggagcaa gaggttgggtg acatgaggcg ccgcctggag gctcttgagg caaaattttc 240
 gctaggtggt ggtgttgag gtggcgagaa tgaagtggaa gaagctcctg ctcagaatga 300
 tgcagagagg atccatactt ggccagagaa tagcagcgag gatgatgtat agatggttga 360
 tgcggaact gagaaaggcg gatcacaac ttatggtgcc atgacttcag agaaatcttg 420
 cggggatgat accaacaatt 440

<210> 36183
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-050-Q1-K1-C5
 <400> 36183

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ttgagcgcact ataaagtggc cgatgagcta caatagtaca tgaccagtgc tttcgaacac 120
atgaatgccca tgttcaattc tcaggactgc gaccttagga tgtgagcctg taccttagga 180
gctaacaggg ttgatcgtgc catccttttg ataggctggg aagcatgata tcattgaccg 240
agcattacag attctacagg tgcattcaat aattcttgtg caacaacgt 289

<210> 36184
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-C6

<400> 36184

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gaacgttgat atgttacata tgtatcgtac tcatctaaca tcttaagtaa ccagagggga 180
aaaagcaagt tgatctactg agatatattg aaacagagaa gcttatatat cacgatttag 240
tgttattatt caagtattcc atataccttt ggcataataa atgaaacttc cagataattg 300
atgtgctgta agaagagtga aaaaaaagat acagggttacc attctgatgt tatttcaagt 360
agggttaagat tataacctga aaaacttggg gcaaggcttc gatttgcttg atagaccagt 420
ttgaaatgac tccgtgggtt gtgcataaaa ttaat 455

<210> 36185
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-C7

<400> 36185

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tgacattctc tgtcttcccg tcgcccaagg tgtctgatac tgttgtggag ccctacaacg 180
ccacgtctc cggtcaccag ctctgtgaga acgcagacga gtgcatggtg ctcgacaacg 240
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tcaaccacct tatctctgca accatgagtg gtgttacgtg ctgccttcgc ttccttggtc 360
agctgaattc tgacctccgg aagcttgca gtaacctgat ccccttccca cgtctgcaact 420
tcttcatggg tggatttgct ccaactgacc 449

<210> 36186

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-C8

<400> 36186

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ggatctgtcc atggcgctact cgtgcaacca cgtctgctat ggagcacgcc gaccaaccgc 120
cagatatgct tgatggaagc acgcctccgg cctctccgag aagttcaccg gacgctgcga 180
cagcgtcgag cggcgcggtg aggtgcggtg cgactccctg cactcttcac agtgcggtgc 240
gagaagatcc aggagcaggt cgatgtcgct gcactctgca gtgacgaaca tggcattgcy 300
ttggagggga agcgcaccga cctcgagcaa tggcgggccc atctcgtaa gcggtcgag 360
gaggtggcgt gtgtcaacaa actcctcgag cgggaacgtc gagcggaatc cgtcgtaag 420
cccaccatct tcggcactta cacggcggcg cccct 455

<210> 36187

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-C9

<400> 36187

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gaaaaagtca tttgccatct ttaccacccg agattttcac cgttgaagaa ccatggtaac 180
cctttaaaag gcctttgccc aactttatgg ggacacaaaa ttttaaaagc ttgactctaa 240
aaatgctaca tttttt 256

<210> 36188
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D1

<400> 36188

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cggcgttcga ggactgggac actaagagcg gcgctctgtg ggactactgc atggacttct 120
gcaagatccg agagatgcgc aagcagaaca agaaggagct cttccgcgcc agcctctgag 180
gtacgacga cctcttagac cacgcccacg tccactccca aaatccgcaa gccaacagcg 240
cccagcccaa gcttggacga cctgccccg tcggcgaccg gcgaccgctc cacgcccgcg 300
accactcccc aacgggaggg aagaagttcc tgagctactt gcagtgtga atcaaggcct 360
gaagaggagc tgccgcaatg ctaagcctga gtgcctgcgc tttgtcgcag cagaacactt 420
gtgagcaatt a 431

<210> 36189
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D10

<400> 36189

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catgtcttgc tgccggcgga actgcgcgtg cacctccggc tgcaactgcg gcagcggatg 120
cggcggctgc aagatgttcc ctgacgtgga gaccgcgggc gtcgccagcg tgaagccac 180
ggtcctcgcc gcccccgcca ccaaggcgag cgccggcggg ttcga 225

<210> 36190
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D11

<400> 36190

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ggtagtagga tttgcgggtgc gtgtgttgtc tagtgtgtgc tggaatagct gtggctgtgt 120
 tcccgtcgtg tctgtggcct gtgtaggctg tctgtagtat actgggttgt tggatgtatg 180
 cgttctggcc gcaagactga tgtcatgctg ttgctgctta ctacagtttg cagtctgaaa 240
 taaaaacttg tttgatgagc actgt 265

<210> 36191
 <211> 273
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-050-Q1-K1-D12
 <400> 36191

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 tttggctgcc tacagggcgg tgctgcgggc ggcgcggcgg acgttcgcgg gcgaccagct 120
 gatgctgaag gagtctgcgg tggagatccg gcgcgcgttt gaggaccacc gtggtctaac 180
 cccgggctcc gacgatgcag cgcgtgccct cgccgacgcc cgcgaggcgg cgcacttcat 240
 caccatattg atagtccagg ccacacgcgc acc 273

<210> 36192
 <211> 258
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-050-Q1-K1-D2
 <400> 36192

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 aaaaaagaga aaaagaaaaa aattaaaaag aaaaaaaaaa aaaaaaaaaa aaaaaaacat 120
 aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaaaaaa caataaacat aaataaaaaa 180
 aaaaaaaata aatatgggat atctatgaaa tggctaattg aaattacaaa cataatccaa 240
 agacaattgt aatagaag 258

<210> 36193
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D3

<400> 36193

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gcttttgtgt tcgggttcac gtcgtgtcct acgtggcgcg gcgggccccg cctagtaaag 180
gagcgtagga gcgtcgtttt gtgttggtgt cgaataaata atgtgtctgt gtgccgatcc 240
cgtgtcgggt tagtgggccc actgtcgggt ctgatgtggc ctgcctttac agcacatcgg 300
tggggctggg ccgtaaagct cctgtgtcgt ttaaataat gtgtactctg tactgtacca 360
actagtatgt gtttcgagtg tgtagtaagc atatttgtgt cccatccatc tttcgaaact 420
ttcttttttt aat 433

<210> 36194

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D4

<400> 36194

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tatctggact gtggcgtct cactggaggc taacgataac atggattcat gcaccgacga 120
tggtaatctg ggcgtaacct tttgctctgt acttccatg atgatgtctt ctactggagc 180
ctgctttgac agatctgggc ttagccttaa aaacaataa 219

<210> 36195

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D5

<400> 36195

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agtactgatt gcatgctcag gacgacagga tcatacggca gactcaacca ctctgtgat 120
gtagaggcta atctcaaaca gcctggtgaa ccagaccgat cagatgaacg tggcccttag 180

ggactgtcca ttcacaggg aggccaaacc caatggatca ttcactgtac tagatgaagt 240
ctcgtaggat aggtcatgga ggatctgact atgctgcca tgggtgcttaa aatgctgtca 300
gcacatgaaa gccatt 317

<210> 36196
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D6

<400> 36196

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aagcgggtctc cttgtcctgc agcagctaag tgggtgtcaat ggcattctat tttatgctgc 120
gagcatcttc aaagctgctg gtattacaaa cagtaatcta gcaacatttg gtttaggggc 180
tggttcagggtg attgctactg gagtgacaac ctggttgact gacaaagctg gtcgaaggct 240
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ttttgtgaag gacaacatag ctgctgggtc gcaacttatac tctgtaata gaatgctttc 360
actggctgga cttgtggcat ttgtgattgc attttctctt ggcttgggag cgattccgtg 420
gatcattatg tctgagatcc tttctgttaa ca 452

<210> 36197
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-D7

<400> 36197

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tccaaggtaa acccacacct actacctgtg tgcttctgta ggcctatcta cacctgcagg 180
ctgcagccac cagcacaggg atatgtacca gcctgctcgt ttcagctgga acagtattct 240
ccagtttttg attggaacat gcagccacag ccaaaagtag ctgaagcgat tggagttgta 300
gcttttcggg gataatcaaa tgatagaga gtggatgttg cggatcatgt ataagcttta 360

gactgccgac tgattcactt

380

<210> 36198

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-A10

<400> 36198

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caatctgcgc tgatatggtg agcgcttata taagggtggc tactacagtc atgtaaaggc 120

tacaggccct caaggctaaa gacgccccaa agatatccgc gcacactgaa gaggctgttg 180

gatcgctcta gcatgagccc gatgcacacg tggatcatac gagcgacact acgacttcga 240

ctgccagaac tgactctggc cttacgatat tgaagatctg atgcatgcat ctacgactag 300

agtgtagcct acaattgctt tcaaagacat gtatcactgt ct 342

<210> 36199

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-A11

<400> 36199

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cgcacaccgc tgatatggtg ggccttata aaagggtggc tactacactc atgtaaggct 120

gacagccctc aaggcaggag ccgccccaaag ctaatccggg cacactgcag cggctgttgc 180

atcgctctac catgcgaccg atgcaaacct ggatcatccg agcgacacta cgacttcgac 240

tgccagatat gaccctgggc ttaccatatt gaatatc 277

<210> 36200

<211> 278

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-050-Q1-K1-A12

<400> 36200

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atcattcttt agctgctcta gctctagcct ctagccctag ctagtagcta gccactcggg 120

cgtgtagtca tcagccttct gatcgtcacc catggccact gccgaggtcc agacccccgac 180

cgtcgtggcg accgaggaag cgccggtggt ggagaccccg gcttccgccg ncgtcgtgcc 240

cgaggaggct tgccccgtcg ncgaggccaa ggtggaag 278

<210> 36201

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-A3

<400> 36201

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tagatgatct gcagccgcgc aatcatgctg cacacaagga ctgcagtaat gaaaatcatg 120

cacatgatat gccaaatggc ttgggtttga atcattcttt caactggctg accatgaact 180

ccaatagatc atcaaaaatc aagcccttat gggaggggag ctgtgacgat gttgacatgt 240

gtgagtttgc agacaaggat gaatatgcac cagtaggatc tagctataat cctatgtcag 300

aaccatttga taactgggaa aacaagtttg acacaagccc agagcaaagt tctcatgaac 360

caatggaaat tgggtgaattg gtcatacatg cttaaagcag gataactgag aatgat 416

<210> 36202

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-A7

<400> 36202

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tacttacgtc ctaagctttg tgatttatac gagaacgatt caatttttga caaatttgaa 180

tgctgtctca gcggtgatgg actccatggt gcaactgggt cttatagtaa tttgtttcgt 240

gttttttggtt gttctcctga aagcgtggag gcatcaacgt tggaagccag cagaaatccc 300
atgaggcgac aggttggtta tccagcaagg cctgcacgga ctctgaccg tgctgtgagg 360
agaggtggag aaaacacaat cgttgacgcc agcggaaact cttgcgatct ttcaacaaag 420
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<210> 36203

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-A8

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aagggtgggt gaaccgcgag agaggggcag ctagcttctt tccttcccag gcgcgcggga 180
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ctactactac agcagccacc cgacgagcgc cagcaccctg cactaccacg agggcacctt 360
cgacgggcgc agggccatgg gccggagcag caggccgctg tcgctgcaga ctgtggagct 420
gaatgtgcgc atgtgctgct cgggctgcta gcgcgtggt 459

<210> 36204

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B1

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aggcaagatg ttccgggcgc cgccgaaaaa gagcgacatc accaagtact acgagatcct 180
cggggtgccc aagtcggcgt ccagaaacga tctcaagaag gcctaccgca aggctgctat 240
aaagaaccac cccgacaagg ccggtgacct cgaaaagttt aagga 285

<210> 36205
 <211> 284
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-050-Q1-K1-B10

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 gtccattagg agtgactgag gttacgaatt gatcataaag gatatcggat aactgggact 120
 ccattaccga aagcacatca ccgcgtacgg tgactgcaac gagcgactgc ttacatgccg 180
 ccacgagact ctcgacatca acacctgaag tctagtgcgt ctggaatcag ctctacgtct 240
 ggtctgtacg acgatgacac cgagaaggaa ggctgatgct actt 284

<210> 36206
 <211> 168
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-050-Q1-K1-B11

 <400> 36206

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 ccattaccca aagcacatca ccgtgatecg tgaatgcacc aagggaat 168

<210> 36207
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-050-Q1-K1-B12

 <400> 36207

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 cgcggcgccc cgccccctgg caccggctac gtccgcgcgc gacccgcccc tgccccaggc 180
 cccgccgacg gcgccaagac cctgcgcaag cccgttttca ccaccgtcga ccagctgcgc 240

ccccagacgc acggccacac cctcacgcgc cgcgtcatct tcggccggac cgtccttgac 300
aagcccttca cgcacatcgg ccggacccgc gtcgc 335

<210> 36208

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B2

<400> 36208

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tctggtactt gcggatctcg cggagcgcga cggtgccggg gcgaaacctg tgccgcttct 180
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gcgtgaggcg tacctggggg gtctcttcga ggacaccaac ctctgcgcca tccatgccaa 360
gagggtcacc atcatgccta aggacattca gtcgcgcgc cgcacatcgg gcgagagggc 420
ctga 424

<210> 36209

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B3

<400> 36209

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acttactgac caccagttca caagaccagc aggccgtggt aagaagctcc aagaggaatg 180
ggctgttcca ctgaaatctg tggaggacat tagtgagcgc ttcacaaact tctgtcaagg 240
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cgatgaccag ttggtgaata ttaaccagaa ggtgtcctt acaattaaca gccaacctgc 360
tgtaaattga gagaaatacg actcgcctac tgatggttgg ggtggtcctg gaggcta 417

<210> 36210
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B4

<400> 36210

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gacataaggt gacttctgcg catggatatt ctattagata caatcaacct ttccaaaaaa 180
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tgttatgaaa agatcccacc gtctatcacg gtgaaccttt ctgaaagctg atctgagaca 300
aactcgatat gcgggcaaca aggaccggag gctctttctt ccatgaccac gccatggtgt 360
atgcgataaa tg 372
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<210> 36211
 <211> 310
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B6

<400> 36211

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ccgtcgactt acgggagcgt cccgatccgg cgttgacacg tgtgatcgca accctaactg 180
gatgtaatgc attgtagcag cgtggcctga gtcgtgaccg tgtcttttct cgcgcttcct 240
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acgacgacca 310
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<210> 36212
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B7

<400> 36212

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gagctatcat tctctggcga tgatcgtggg actgtgaaga ctgtagtcca atacttcatg 180

gagacttatg gatttagcat tcagcacacc actttaccgt gcttgcaagt gggcaatcaa 240

cagagaccaa attatgtgcc tatggagggt tgcacgatag ctgaaggaca gcgttactca 300

aagcgactca ttgagaaaca gatcacccgt ctactgaaag tgacctgtca gcgacatcaa 360

gagcgtgagc tggacatttt acagactgtg catcacaatg cgtactatga ggacccgtat 420

gcacaggaat taggtctaag aattgatgat acgcc 455

<210> 36213

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-050-Q1-K1-B8

<400> 36213

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ggcccaagcc aggccaacag ttttgagggt gtaatggcgg accagctacc aaccactgt 120

ccttcataag ctaggtggcc agttccacct gagctccagc ttctctgaag gtgtacgggc 180

ccgtaacatc tgcctttctt tctcatctta tgaaaggaga tttgccacga ggaactacat 240

gacccatagc ctttggggcc cttcaatgtc tgttagcggg ggcacatggt ttccagtgt 300

gccgactccg ctttttgcca atgctccagc cgagaaagggt ggcaaaaact tcatgattga 360

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agtgaagctg cttattcaga atc 443

<210> 36214

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-B9

<400> 36214

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 cgggtacggc gccggcgccg tgaagaagca agcaggctac agctacgcgc aagaggcgctc 120
 cgaagagagc tacggcgccg ctacgtctca ccacggtggt gccggcgccg tcgcgagac 180
 gtacgcctac gaccagcagc aggcctacaa gcacaaggac ccagcaaggc cggtgtacgg 240
 tgctcgctac ggtggtgg 258

<210> 36215
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-050-Q1-K1-A1
 <400> 36215

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 ggggaagcgg gacctcagcg accagaagtg gacctaccag atcggccttc acggcgagtc 180
 gctgggcgtg cagtccgtcg ccggtagctc gtccgtcgag tggggcagcg cggcagggaa 240
 gcaacccttg acatggtaca aggcctactt tagcgcgccg tccggcgacg cgccggtggc 300
 cctggacatg ggcagcatgg gcaagggccca ggcggtgggtg aaccggcgtc acatcgggcg 360
 gtactggtcg taca 374

<210> 36216
 <211> 320
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-049-Q1-K1-G10
 <400> 36216

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 cgatcttggt ggatacagct tcctctacgt actcttgaaa actagcagag caagcaagcc 120
 agccacttta cctagctagt gttccggtg attccactgg cgacgattcg agtttgagaa 180
 gcacgtgggg gcggagtcga agaaccagaa cggtaacatt ctntcacca acgacaagtt 240

gctctacgac ctgtttcacg agctcagaaa ttggccccct tgtgcgagg agtttcgggc 300
gaacgccggg gtactcatga 320

<210> 36217
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G11

<400> 36217

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gggacaagtt cgtgcgggcg atctacacgt tcaagcagcg gctggcggtg aaccgccga 120
tgaacctgga cttactgcgc tcgctgcggc ggggtgtgcc cctcagctac agccccacgg 180
cgttcgccat gctggacgtc accacgcca gggctcttga caacgcctac ttcaacaacc 240
tgcgctacaa caagggcctg ctgcctccg accaggtgct cttcaccgac cgccgctccc 300
gaccca 306

<210> 36218
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G12

<400> 36218

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cttgcggtgt gatgctgttc tgtgatacgg cgctatcctc gccgagetta ttctctgact 120
tccaacctat tcaccaccgc tgtcagaacc cttcttgtga caaaaagtta agcgagcgtc 180
ttcttgacct tgcaagactt tttgtccgga gataatctcc tacgaattac cctcttgcatt 240
cttgcgacta cctctcctcg tctcgcgct gtgcgacctt ccatccctct cgtccccgtc 300
tatccctctt gagcttggaa cactctcgca gctagtagta gctatatatt attgggttcc 360
tttcacctac tttcgcatga actactctgc tatttgctgg aataaagc 408

<210> 36219
<211> 358
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G3

<400> 36219

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gggcacgggg caaataaaaa aaggaaccag gcaacaaaac cataaaggaa accctttatg 120

aagaccaaac taacaatcac ctccatatca agctctacaa ctaatatacg tataccaaca 180

tttaacaaa tggccctgct ataacaacca ccttacttgc aaacccttga cgtaacctaa 240

attacaccac tagtcatgaa aagctcttct aaaccatgac ctaaacctga aaaggtccta 300

ctacacgtac tttaaccaaca ggtgcgcact ctaataaagc aactacacca ccccttac 358

<210> 36220

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G4

<400> 36220

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tgggtgatcg ccggcgggtac ttgtagcggg gtatttatct gagggaagaa gaaactatac 180

aattcatcat gtcaggaggg tcgtctgaat cttccccgtt atctggacaa aatagcctta 240

gttctctatc aatttccaag gacaatgaac tatcttcaga gtctggctgc ttgtccattg 300

gtgtactaag cgcttctgga gaccttgctt agaagaaaac tttccca 347

<210> 36221

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G5

<400> 36221

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cgtacaaaca cccgttgtaa ggagctaaac tcagaacctg ttattcctga gggattacct 120

gagtgggaag agatgatgga ttcctgggggt tctaaaatga tttctgcaat tgaggttggt 180
gctgagatgg ctgcaatagg ctttggccta tcgaaggatg catttacttc tttgatgaaa 240
gagggaccac atctcctcgc accaactgga agtgacctgc agcgtcatgg ttctgagggc 300
accgtttttg ctggattcca ctatgatctt aattttcttga cgatacatgg ccgaagtaga 360
ttcccaggcc ttaacatctg gttaaggaat ggtaaaaaga tggagggtgaa agtccctggt 420
ggttgccttc taattcagtc tggaaaa 447

<210> 36222
<211> 161
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G6

<400> 36222
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ccaacacccg agtggatgag ctaaactcag aacctgctat tcttgaggta ttacctgtc 120
cggaagagat catggattac tgtagatcta aaatgataac a 161

<210> 36223
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G8

<400> 36223
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atcagagtta gcatataata gtagtactga gtcgataatt aatttatgct atttgagatt 120
actatacaaa attgatatat tatctatatt atattagtga tatattaatt ctactaattt 180
aaaatatttt taagagttta tattataatt tagagagcag atgtacattt atgggtaggc 240

<210> 36224
<211> 225
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G9

<400> 36224

gttgaggaac ccgaagtgat cgcccaacct gtcaccttgc agcagttatg ccctttctgt 60

gggttcacgg aatccgtgcc tctgttgaaa aaactgtagc ttatgtgtgt cttggcggat 120

tagctgggta tcttgaactg acgttcatgt gacatggcaa tggcacatga acatacgttt 180

catgagtttg attgttaatt ggcgcttgca gcactttgat ccctg 225

<210> 36225

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-049-Q1-K1-H10

<400> 36225

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tgtctcattc tagttttgtc ttaggcaaaa aaaaaaaaaa tccatgatct tgttggcatg 120

aagtgtttga agttgtgact aaagctatga ctagttggag tcttgagatg tttattttct 180

atatgccccat acacttacat gactaggaag ttttttttct tctagtatat ttaattcttc 240

tgcactaggg caacaattat catatattcg gaattcatgg ttcctttgta ttttagttta 300

tgttggttgc catcagtttt ctgttcatat taaattatgg gttcacatat ataagctgca 360

tgtttggtcg aattgttaat tttgcttgtc aaggaggatg cacacctaga ttagacaang 420

tggttcttat gcatgtagtc agt 443

<210> 36226

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-H12

<400> 36226

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tctccagcag aaggagcatc cgaaggtcaa gagaaagggc gatgacctct tctacgagca 120

caccctgacc ttgactgaat ctctgtgtgg cttccagttt gttgtgactc acttggataa 180

caggcagctg ctgatcaaat caaatccggg cgaagttgtg aagcctgatt ctttcaaggc 240

gatcaacgac gaaggcatgc ccatgtacca gaggccgttc atgaaggga agctgtacat 300
ccacttctcg gtggagttcc cggactcgct gagcccgag cagtgcaagg ccctggaggc 360
tgtgctcccg cccaagccgg tgtcgagta caccgacatg gagctggacg agtgcgagga 420
gacgatgccc tatgacgtga acatcgaagc gga 453

<210> 36227

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-H2

<400> 36227

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caagattaac aaaaagcttg gctttgggaa ggaggatctt ggcaagatcg aagaagagct 120
tgaattggaa attgccaaaa gtgagctgac tgaacttaat aaggaatgcg ttgaagcaat 180
ggagactcaa ctcaagaggg aggagtttca agatgaggag atgcctgatg tcatgaaatt 240
ggacatcata aacttactgt aggcctgac gacgataaat ctttaaggcc aaagcaccta 300
tggctttgcg ttcaagttga acggtgcttc acacctatga acgcctgttc tttccttttt 360
tgaata 366

<210> 36228

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-049-Q1-K1-H3

<400> 36228

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aaggcctccg gtccttcag aacaagagcc tgaacctcgc cgacctcgtc tggctctcag 120
gggtcacac gatcggcatc tcccaatgca actccttcag cgagcgcttg tacaacttca 180
cggggcgcg cggggccgac gacgcggacc cgctcgctgga cccgctgtac gccgcgaagt 240
tgcggtcaa gtgcaagacg ctgacggaca acacgacgat cgtggagatg gaccccgga 300

gcttccgcac cttcgacctg agctactacc gcggcgtgct caagcggcgg ggcctgttcc 360
 agtccgacgc cgcgctcatc accgacgccg ncttcaaggc cgacatcctc agcgtgatca 420
 acgcg 425

<210> 36229
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-049-Q1-K1-H5
 <400> 36229

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 tggcgcagga cttcaagact gatctgaggt tccagtcctc cgccgtcgcg gcgctgcagg 120
 aggccgcgca ggcgtacctg gtgggtctct togaggacac caacctttgc gccatccacg 180
 ccaagcgcgt cactatcatg cccaaggaca tccagctcgc gcggcgcatac aggggcgaga 240
 gggcttgagc gcccgtcgtg ctgctcgtcg ttgtagtggt actagaagta gatggtggct 300
 ttcgtttcgt ggcttcctta tcctgtagga gtaatgttct agatgtcttg gcttcagtgc 360
 aatggactgt gtttgctcat ttctgaaatt tatcaatgga cttgttcttg c 411

<210> 36230
 <211> 380
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-049-Q1-K1-H8
 <400> 36230

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 ggtcgggtacc gcggcgtcac agcggctgcc aagaaacacg ggctaagcat ccgggggtac 120
 gtgtcatgtg tgattgcttg ccccgttgga ggcgcaaccg atccggcgaa ggtggcgtac 180
 gtagctaagg agctgtatac catgggctgc tcggagatct cgctcggcga caccgacggc 240
 gtcgggacac caggtagcgt ggttgctatg cttcaagctg tcatgtcgtt tgtcccggcg 300
 gacaagattg ccgttcattt ccacgatacg tacgggcagg cccttgccaa cattctcgtc 360
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<210> 36231
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-H9

<400> 36231

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tgcagccgtc cgacaccgac ctccggggcca aggcgcctcaa ggatgtcaag atccaggggg 180
tctggtagcg tcagctcgag tgattcgagt gtctaactgc taggtgtccg accgtcgta 240
tgatcttgg gaaggtgtat gtataccatg gaaaactttg gagagcagag gaggaatcgt 300
gtatgtaatg tacttggtta tgcaaattcg ggctgtcgct tttttactc 349

<210> 36232
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F9

<400> 36232

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gacgggcgcc atcccgcct gcctcacggc gctgtcgaa ctccagttcc tcaccgtctc 180
ccacaccaac gtgtccggcg ccatcccgga gtcgctggcg cggctgcgcg gcctcgactc 240
cgtggacctc tccagcaacc ggctgacggg cggcatcccg gcggcgctc 289

<210> 36233
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-E10

<400> 36233

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 ccgaatgctc taggaggagg cgcggcgccg gcgagatgg ggtccaagta cacgcgcggg 180
 tgctgcggct ggctgatcgt ggcgctgatt gcggcgctgg tggccacggc cgcgatgttc 240
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 gcggggggcca tcgac 315

<210> 36234
 <211> 352
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-049-Q1-K1-E11
 <400> 36234

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 ctgctgctgg cggcgggggc cgggacggcg tcggcgggcg tgagctgcgg cgaggtgacg 180
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 tgctgcagcg ggggtgcgctc gctcaacagc cgcgcgtcgt cggcggcgga ccggcaggcc 300
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<210> 36235
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-049-Q1-K1-E2
 <400> 36235

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 tgcgacagca gcagccatgg gccctccaag ggggattaga taaggatagt tagagataag 180
 attagaagat tagttgagat tatttaggag attagttgag attatctagg aaggttatca 240
 gttagtagtt tgttgagagt ttttaggaga gttttaagga gataaggatc agtagctaga 300
 taggggcggc caatcggcct atttatgtaa tcaatggatg agaaataaag caagcaagaa 360

cggggaagac caatggggca tctnctgaga gaacgagcat attcatttat attgctcttg 420
aagtatttaa ctagtttac 439

<210> 36236
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-E5

<400> 36236

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aagggggccc gtcgcgaga ggaagaggag agcagaggag gatggctcgt acgaagcaga 120
ccgcccgaac gtccacggga ggcaaggccc cccgcaagca gtcgccacc aaggcggcga 180
ggaagtcggc gccgacgacc ggcggcgtga agaagcccca caggtacagg cccggaaccg 240
tggcgctgcg cgagatccgc aagtaccaga agagcacgga gctgctgacg cgcaagctgc 300
ccttccagcg cctggtgcgc gagatcgcg aggacttcaa gacagacctc cgattccaga 360
gccacgccgt gctggcgctc catgaagccg ccgaggccta cctcgctcgg tctcttcgag 420
gacaccaacc tctgcgcat ccacgct 447

<210> 36237
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-E6

<400> 36237

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aatctgtcag cggcaaactg ttacaaatct gagcatctaa agagaccaga gaactgggca 180
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tctatccagc tagtcgctga gcatgctgca gcaataaca aggtgttcct gatgaacctc 300
tctgtccct tcatttggtg gttcttccgt gatgcccaag agaaagtcct cccgtatgct 360
gactacatct tcggcaacga aactgaggca aagatctttg ccaaagtcag aggatgggag 420

actgagaata ttgaggagat tgctttg

447

<210> 36238

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-E7

<400> 36238

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gtcaagctca gcgcctgggt tgcgtttgga ctccagtgcga gaattgcgta gaggatttag 180
aggaagagcg gagctgagct gagcgaggca ggagtaaagg acaacctgta tgtcactgtt 240
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ccagcgacgc ggatgggcca cgtgaacgtg tctggccgag cagtgcgctc gtcacctccc 360
cccaatgggc catggcctct tccgcgaaag cgtgctcccc tgtaagtatc tgatttggat 420
gctagccaaa gctgctggat gatta 445

<210> 36239

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-E8

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atgatataag ttctccgact atggattgcy acaataattc aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaatata aacacaagca tacaacaaaa 180
taataataaa taatagagta acctaaatta aattaactgg tccgcagatt cacaactttc 240
actactggga aacccc 256

<210> 36240

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F10

<400> 36240

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tggttccgag aacgcgctga tggatgagct gcaggcactg catgagcatc tgaaagctca 120
tggcccctac atcaacggct agaacgcac accagctgat cttagcatgg tgacaaagct 180
cttcacacct ccaggctcga ctggagcatg acaaaggctg gcagatgccc gaacatctaa 240
ccaacgtcca cgcctacacc aaggctgctt tcagccgtga atctgttgtc aagactaatg 300
catacgatga gcacgtgatt gcaggatggg c 331

<210> 36241

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F11

<400> 36241

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ctgcctccgg cgatgacgcg gcgaagctgc aggagctcga cgagatgaag cgcacgctga 180
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tgcaaggacg cgaccctagc gcatctacag ctgacgcaaa agaacagggtg gatgccccgg 300
ctgtgcatgt tggaaatgtg gattatgct 329

<210> 36242

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F12

<400> 36242

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ggggtgctgg catcgcttgg gctgtggcag aaggaggcta agatcctctt ccttggcctc 180

tacaacgccg gcaagaccac ccttctccac atgctgaagg acgagcggct cgtacagcac 240
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<210> 36243
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F2

<400> 36243

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 tgcgcttgtc caatgcgcgc ctggtcctcg cctccctacg ccggccacgc gcgccgacgc 120
 cgacacagga tcgccgcgcg acctcctact ctccctcctc ggccgcgcga gcggagctcg 180
 cgcggctccg gtccgagggg ctccctcgca gcgccgagat cgcagcggcg cggcgcgagg 240
 ccgctgcccc cgcgcgggtc gacggctccg agctgctcct cgtcctcgcc gtggcgcccc 300
 gcgtcctact gcttcttctc ctcgggcttc tctaagccag cggcggcctg ggtagcgcgg 360
 tggctggagt ctggggcccc ctt 383

<210> 36244
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F5

<400> 36244

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 cggcagccac ccaaagccca ggaccgcctc accgccaatg gccgaccgcg tctaccccg 120
 cgcgaagccg aaccgcctc caggcgcggc gggcaacagc aacggcgcgc aggcgtcgtc 180
 gttccctgcg cccaagtgcg agatgtacca gcggcccatc taccgtccgc agggccccgc 240
 gaagcggcag cgcgggcggg cgtgccggtg cagcttgtgc tgctgcttct gctgggcgct 300
 ggtggtggtg atcctgctgg cgttcgtggg cgcggtgtgc ggcggtctct tctacctgct 360
 gtaccggccg cagcggccgt cgttcagcgt gtcgtcgggt cggctggcgt cgctgaacct 420
 gacgtcgtcg gcgacggcgc ccgtgct 447

<210> 36245
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F6

<400> 36245

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tggaaaatta tcggaggaca tgatatcadc acatgacatg aaacgactag aggcgtattc 120
aaacaattca aaccgattat ccatgtgatg ctggatctag taccatgct tgcacatcag 180
tattttttac acaggcttcc aatgtgatta catggtgcat atacagtctg tatgtttctgt 240
ctaagcctgc acgacaacga cataggcact gcgaatggag atctcgctat agaaagggca 300
catggtctat caaacttcat acagacaatg aagaaactgc atggttacct tcataacatt 360
ggaaggaaaa aaatcggaac aaccttacct cgactgaaat acattgaaat gccctctttt 420
agcaaatcga tggatgagga cc 442

<210> 36246
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F7

<400> 36246

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cgggtaccgt cgaatccggt gctgaattcc gaggtctcac cggcgacagt gagccaaggt 120
cctccagacc atcctcccgg cgctcgctcc tgcgccaca gggcggtggc caacggcaag 180
caaacgccac ggaatcccgt cgctacctcg ccgagccagg atgaccggtc cggggcaggg 240
aaagagaacc agtcgtgcag caacacgccg agcacgagca gccgccagtc gccgtcgag 300
cagaagacgc ccaagtccag ggcgacgccg ccgcctgaca ggcgaggggt tactcctgct 360
cagacaagcc ctgctattgc gcctgaccgt aaacggcctg ccgacgctgc tgctggcact 420
ggcagcaact ctgacaaagt gacgacct 448

<210> 36247
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F8

<400> 36247

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cctggatggc cgtcctcctt gataccttgc ctgcgagtg ctctcggatga gctactttgt 120
tttgatttat caggaaatcc gtttgcttca tggtatgcag gtcagatct gattgctgga 180
ttcggcatct tacgggcttg aatagagcta ggactgggag aaaacaacaa acccgcggtg 240
gacctgtat cggtagtcc ttgccttcaa ggttcatgtt gttttgtttt ggtggtcgag 300
catcgcattg tctgcttctg gttccagatc tggagaaatt tctaagtcgt cgtcgtcgtc 360
gtcgttcggt,tcggagcgga tctgagcgga cgatggctgg aagcggcggg atctcttggg 420
ctgcaatcct gcttcacctc gatggatgat g 451

<210> 36248
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-E1

<400> 36248

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tggcacccaa ggcggacggg aagcgggctg ctaataaggc ggcagaggat gagcccgca 120
cagagaaggc ggataatgct ccggcgggga agaagcccaa ggccgagaag cgcctcccg 180
cgggcaagtt ctccggtaag gagggcggct agggcaagaa ggggaaaaag aaagcgaaga 240
agtccgtgga gacctacaag atctacatct ttaagggtgt gaagcacgtg caccctcgaca 300
tcggtatcct gttcaagggc atgttcatca tgaactcctt catcaacgac attt 354

<210> 36249
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C1

<400> 36249

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taaaatctga gcaccgctca ctgttgaggc taaccaggac gtaaccagaa tggagatctt 120

tatatcgctt gcgcgcttat cgtagccata ctgtgactgc tgtgcagctt cggagaacgc 180

tagcaacatg aacatgcctc ttggcttggg gcaccaacct gtcattccat caacacgcag 240

catccaatga gactagagaa aaccctgtaa cattttacca agtgctaata gcacgagctc 300

atgtaacttc tgcagcgact atcatcccca atattccagt gcattgcctg actttactga 360

gacatctta 369

<210> 36250

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C10

<400> 36250

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aaggccactg ggctcgccat caagcactcc ctcgccagc cccacccggg gaagctgggtg 120

ccgttcaacc cggagtacca ggacgagtcg gtgctgtgga cggagagcgg cgacgtgggc 180

aagggcttcc gctgcatccg catggtgaac aacatccgcc tcaacttcga cgccttccac 240

ggcgacaagg gccacggcgg cgtgcacgac ggcaccaccg tgggtgctgtg ggagtgggccc 300

aagggcgaca accagagctg gaagatcctg gcctggggcg acgaggccta cgccgcggga 360

ggcatcagcg gcgtcaacgc gccc 385

<210> 36251

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C11

<400> 36251

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gaccggcgcg caccacggct ggtactgcaa ctacctcgag gccacgggtca cggggcccca 120

cctcgggtgc gcgcagcagc tcttcaccgt cgagcagtgg ctgccaccg acgcgtcgcc 180
ctaccgcctg tacgcggtcg tcgacaagtg caagacgaag cggcaggagc cgcgacgctc 240
gccggccggc gaggccgagg ccaccgtgac cgtgctctag gtacgaccag tagtaaatca 300
tcgacagagg ctagctcctg cctctgctgt gtgtaattac tgtatgtgag tgaccgatc 359

<210> 36252

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C12

<400> 36252

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tgtgtgccac acccactg agcgatatac gaaaaccgac ggcgctggc ccctaggacc 120
tagtcacaga cccttgatct ttcttcgacg cgccccggg catggcgaac cgcagtgttg 180
ccatgggctt ggccctcgcg ttcgtggcca tgaccgcgct ctgttgcgcg cggggcgccg 240
cggagttgcc ccggtggag cactcggcca ggagcgaacg atcgctgaag ctgctcgtcg 300
tcggggactt gggacgcagg gggactcaca accagtcccc gggtcgagac ccgatgggaa 360
gggtccggga gaagctcgat atcgactttg gtatatc 397

<210> 36253

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C2

<400> 36253

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cggggtgggg gtgtcgttcc ggggcacgga gcccttcaac atgcgggact ggtccacgga 120
cgtaaacctg tcgtggctgg gcatgggcca gctgggccac gtccacgtcg gcttcctcaa 180
ggcgctgggc ctgcaggagg aggacggcaa ggacgccacg cgggcgttcc ccaaggccgt 240
ccccaacgcc gtcccgggca agccgctggc ctactacgag ctgcgcgagg aggtccagaa 300
gcagctgcag aagcaccgga acgccaacgt cgtggtcacc ggccacagcc tcggcgccgc 360

gctggcgacc atcttcccgg cgctgctggc gttccac

397

<210> 36254

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C3

<400> 36254

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cgggtaacgg agtagttgaa taggttagac catgtatgat tgatctattc acttcgatga 120
cgatccttca cccaacttgt atggctacct acgcctgctt actgcttaca cagggctagc 180
gctcatgctg gagctcactg agaccagggc tggatgcttt ttcacaaatg gatgggctgc 240
ggatgccttt cagttgtagc acaagtcttc cacctgaact gacgattttc tgacatgata 300
cgcgtttgat ctcagctgct gttcatgctg agattactac tatttatgtg tatctc 356

<210> 36255

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C6

<400> 36255

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tgatttcaag atgcatgtgt catggttggc ggtcaattta ctgcatacct aaacggggtg 120
cattcaaagg ttctgcacct ctgaatcttt cagatcgtct tcaccaggtg cttcggtggg 180
ctcttgggtc tattgagatc ttcttcagca atcattgccc tctttggtat ggggatgg 239

<210> 36256

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-C7

<400> 36256

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agcaagaacg cccagctccc cgacggccaa gttcccgtgc cggcgcagct cgtaccgtcg 120
aatccggtgc tgaattccga ggtctcaccg gcgacagtga gccaaaggtcc tccagaccat 180
cctcccggcg ctcgctccgtc gccgcacagc ggcgtggcca acggcaagca aacgccacgg 240
aatcccgctc ctacctcgcc gagccaggat gaccgggtccg gggcagggaa agagaaccag 300
tcgtgcagca acacgccgag cagcagcagc cgccagtcgc cgtcgcagca gaagacgccc 360
aagtccaggg cgacgccgcc gtctgacagg cgcaggggta ctctgtctca gacaagccct 420
gctattgcgc ctga 434

<210> 36257
<211> 448
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-049-Q1-K1-C8
<400> 36257

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ggggcctcca cggatccacc cctgcttcag gttacctgtg ccagcgcagc cggtagaagc 120
catggacagc tctctcgcga gcgcggcggc gatagccgat cagcgcagca agatcgagca 180
gtaccgccac atcctcgcct ccgtcctatc gtcttcccca ccggacatct ctcaggccaa 240
gcgcttcttc gaccacatgg tttccgacga agttccgctc gtggagtcctc gtcaattgct 300
ccagacgttc gcgcaagacc tagggaagct ggagtcggac gcgcagaagg aggttgccca 360
ctacgcgctc acgcagatcc agccgcgtgt ggtctccttc gaggagcagg tggtagtgat 420
tagagagaag cttgcagaac tatatgag 448

<210> 36258
<211> 398
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-049-Q1-K1-D1
<400> 36258

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ccagtgcgcg aggacgttca gagctgcgac attgtgcgct tcaacaagat ctaaattttcc 120
 ttgtgatggt ggcaatgggtg gttggtgggc actgtaccag cctaatttat aattttccat 180
 gagcatcttc aagagttttt ctaaattatc atttggagtc atttacataa aaagcacttt 240
 ctatatcttt ttaatctcaa caacttttct atatcttggt ggcaccatct ttagctagcg 300
 agaaacctgg atggctggaa tagaagataa ctatatcttag acaatacttt tagtaattct 360
 tgtgtgatcg gatgcataat ggcttgggtct ggctgggt 398

<210> 36259
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-049-Q1-K1-D10
 <400> 36259

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 gaagagggtt ctttgccctt gatcattttg cacggtgagg ctgatatggt tactgacccg 120
 gcggtttagta aggctctgta tgagaaagcc aagagccaag acaagaagct gtgcctctac 180
 aaaggtgcgt atcacgctat cttggaaggt gaaccggacc agacaatatt ccaagttctc 240
 gatgatatca tctctggct cgatcagcat tccacaaaag aaggtatata gttgtgaatc 300
 aggcagcgct gttcgccagg attgggtgaa ttcctttggc aatgctgtat cgcttncgg 360
 tggggatccc ggattcaacg gtggggattc catttttgat atga 404

<210> 36260
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-049-Q1-K1-D12
 <400> 36260

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 gcgcggatcc ttgacatgta tgaggcgctt gctgaggtga tccctgaact aaaggagctg 120
 ttctttggga gttatggngg tgatgtcatc catgatctgg aggggggttct tgaaaggctt 180

ggtagacgcgg tcaagggtac ccttcttgag tttgggaagg tcctacaaca ggagtcacgc 240
 cggcgaccca tgatggctgg tgagatccac ccaatgacac gctatgtgat gaactatctc 300
 agattgttgg tcgtttactg tgacacactt gacatacttt tggatgacag tgggtgctgga 360
 gctgtagatc attaatatctt acataatggc accga 395

<210> 36261

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-D7

<400> 36261

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 gagctaggaa gaagagaact agtgccaag cctaacaaga aagcaagctc ttctgcaact 120
 gttggcattc gccttaattt gtatccatcc caatggcagg cctatctctg gaacaccctt 180
 gggcattcac tttcggcctc ctaggcaacg ttatctcctt catgaccttc ctggccccga 240
 taccgacgtt ctaccgcac tacaagagca agtcgacgga gggcttccag tcggttccgt 300
 acgtggtggc cctgttcagc gccatgctgt ggatcttcta cgcactgac aagtccaacg 360
 agacgttcct catcaccatc aacgcggccg gctgcgtgat cgagaccgtc tacgtggtca 420
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<210> 36262

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-D8

<400> 36262

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 ggcgaggcag atcttcgaca gccgcggcaa cccaccgtc gaggtggacg tgggccttag 180
 cgacggcagc tacgcgaggg gggccgtacc cagcggcgca tccactggaa tatatgaggc 240
 cttggagttg agggatggag gatctgatta tcttggcaag ggtgttctta aggctgtcag 300

caatgtaa at aacattattg gaccagcaat tgttggaag gacccactg agcaggttga 360
gattgacaac ttcattgtcc aacagcttga tggaacctcc aatgagtggg gctgggtgcaa 420
acagaagctt ggagcaa atg ccattccttgc 450

<210> 36263

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B8

<400> 36263

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tggtactcat tttagggact tcatttcttg cagctgccaa tccaattaca ggatgctatg 120
acgctcttaa gtgatcatga acttatacat tgaaataatg gtgggcctcg agaggccaga 180
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gtgagtgcaa acaacttctt gctaaaagtt agcaaggaat cggttgatac ttattgatgg 300
tgcttgaaat atcctataga tgtcttttagt agaggatcca aataatggtc tgcaagggtt 360
attgaatcgg atcgacacaa actccatctg cttcagaatt gagctaagcg catcctaaca 420
tcttgactcc tatatcgatc aattattt 448

<210> 36264

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A10

<400> 36264

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gcgcgccttc aagcaggggc ttggcttctc ctctcatcc gccactgcct tcccttccaa 120
gcccacgcgc tctctcttcc tatccggttt tgttcgcgcg ggcgcagccc ctggccccgc 180
caaacagcgc ttaccgcatt ccaggacccc atccagtcgc caccatcgct caagttcacc 240
gcctcttttcg cg 252

<210> 36265

<211> 399
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-049-Q1-K1-A11

 <400> 36265

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 atttcagaaa tcaaaacgcc agcagttact ttcaagagaa gaaagcaatg cacaaggcaa 120
 tagttacctt gacagccggg gggaaccctt catcagtgac agtaataatg gtgagcataa 180
 tcatccagag gcaggtctgc aaactatcct ggagaattca gaagatttac cgtcaccatc 240
 agggagaaca caacctgccg ttttcccacg tggccaaagc tttggacaaa gaattatggg 300
 caatatgatg gataatattt ttntcagaag tcttacgtnc aaatcaaaaa gtcgaacaga 360
 tgatattgct tcaaccttaa ctgtgaaagc ccctgatga 399

<210> 36266
 <211> 301
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-049-Q1-K1-A12

 <400> 36266

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 cagtacattc ccggtgacgt ctgagccgtc taaagcatct gaagaagcag ctaaggttga 120
 tggcgaagat gagaaagcta tttctaataa acaagagact ggtgttcctg ataaagatga 180
 gaaaactgtt gagataaaaa atcataaaaa tgtgactaat ataagaacaa gtgtcaccaa 240
 agagaatgga agccataaac gtgaatccaa taagccaaga aagcatctca aggaaaatta 300
 g 301

<210> 36267
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-049-Q1-K1-A2

<400> 36267

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cactcgccta ccgtgctaata cgcttgccgg cccgctcccc tagacttaga acccagtagc 180
cttataaaac cgagccatcc cttttcgctt atgtcttgct cgccattatc gagagcagag 240
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actgccaggg cgcttcgcca gggcacaatg actgtggccg tggcaccggt actaggaaaa 360
gagcatcaga agtcctatta tccctcattg gagttagagc tccgncgtgg acccaaatat 420
cgccgtggctc tgggttctgt gctgcgt 447

<210> 36268

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A3

<400> 36268

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cacgatgcgc ggccataacg gcgaggtgac ggcgatcgcg accccgatcg acaactcgcc 120
tttcacgtgc tcttcctccc gggacaagtc cgtgctgggtg tgggacctga ccaaccgggt 180
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cggccactcc cacttcgtcc aggacgtcgt ccttagttcc gacggccagt tcgcactctc 300
tggctcctgg gacggcgagc tccgcctttg ggacctctgc accggcctca ccaccgccc 360
cttcgtcggc cagcagaagg acgtcatctc cgtcgccttc tccgtcgaca accgccagat 420
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<210> 36269

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A4

<400> 36269

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 tgcaaccca taagagctag gggactacta taacaagcta gggccataac tctactttca 120
 ttctctactc atcactggac aactccgcgc aggaactaca cctcaccaac ccgatactct 180
 ccacccagga ataacgataa caccgtacac tactatcttc ccctttcctc gcctcaccga 240
 tcactcccac ttataccagt acgacatact tacatacaac taccaattaa cactctctag 300
 ctctgtga 309

<210> 36270
 <211> 450
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-049-Q1-K1-A5

<400> 36270
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 acggcggatc cggcgccactc ggagaagacg agaggatcag cttcaacggg tgccggaact 180
 tcttgctttg gcagaaggct gcggctcagg gtgccgcccgc cagccacgcc ggggtccgatg 240
 ctctgacggc aaccctgagc cccggcagga agggcagcgg tggattcaag gctactgatc 300
 cgagccatgg caggaaaggc ggcgggcggt ggaatgctgg actgaacaag ttcttgctca 360
 gcttcagcat caaggtgtga tccatgcgtg gacgagagaa ggggggcgtt tcttggtgtc 420
 gaggcaccgt gcaacaataa aaatgcattg 450

<210> 36271
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-049-Q1-K1-A6

<400> 36271
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 cgagtgcggc atctttgaac gcagatttgg tgcccgaat ctgccatgga tttggtttaa 120
 gatttgggga gatcggtcgg gttcgcgctg caagattcgg tctctgtgcc tgttttattc 180

acgagatcgc aacaacgata ttgctaagca agataagatt tcaacttttt tcttgatcgc 240
atctcagatt aggaggagca aataaagcaa gaatagaaag atttttgggg ggagaaggca 300
tgatgctgga agggaagtc taccttgtgt cgcgctccgt gccgagctcc tgcgagcccg 360
agacggagtg ggagtacctc gccacgcgg tcctcagcgg caagcgcccg gngccggaag 420
atgacgtcga ggtcgaagac ccg 443

<210> 36272

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A7

<400> 36272

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gagcaagcag acgcgatgcc actcggtcgg gtggcaacaa gtgaaggact gagaactcga 120
tcggcaccag tagattaagt gggcatgacg tcaataacta aatgattacc tacctagccg 180
cttgtagtag tcatgctcta ctttatatta ctttaaaaga tacatttcgt tgtgtaatca 240
tcttatgggt catc 254

<210> 36273

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A8

<400> 36273

cccacgcgtc cgcccacgcg tccgcggacg cttgggtcct cgcgcgcgcg ccgcccgcgc 60
cgggacggaa ggaagaggag gagcaaggag cacgacgcga tggggcactc caacgtgtgg 120
aactcgcacc ctaagaacta cgccctggc tcccgcgtct gccgggtctg cgcgaaccct 180
cacggtctga tcaggaagta cgggctcatg tgctgcaggc agtgcttccg cagcaacgcc 240
aaggacattg gtttcatcaa gtaccgttga agaggccact gtgctgctgt ggagaacttc 300
ctacatcaaa gaaatgggtc cttcattaga aggcctaatt tatgcgcttt agctttttgt 360
tcagaacttg agactcatgt gttaaactcg acttggtaaa gttttgatgg ctactttgtg 420

cttggttgac cagctataat cagaagatt

449

<210> 36274

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B10

<400> 36274

ccacgcgtcc gtttgttggt tttttttttt tttcttaatt ttatatcca cttatctctc 60

atctttctgg gaggtttttt tttttggaaa agggccaatg cttatggcaa aaaattttta 120

ctgcctaatt ttttaccac gctttccgag aaaccaccgg ctatttaaag gaaaaccccg 180

gtaaaaacca tttcaaacg cgcacacttc actattgaaa aacctatcca ttagaaaaaa 240

aagggataaa gaaaaccccc taaaaaac gttccccaac c 281

<210> 36275

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B11

<400> 36275

cccacgcgtc cgcattgcac aaccagcatt tactgcggat cgatgggtgc tgttaccgc 60

gtcaggcttt attctaagtt aaatcctaag gaaaaaaat ggtgcttctt ggtgctgc 118

<210> 36276

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B12

<400> 36276

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ggaatcactg caggaatggg agaaaaagct gaaggaaagt cagaatagac ttaatgagtt 120

gcagagatct ataaatgagc gagaggagag agcaaataag aatgatcaac ttttcaagat 180

aaaacaggac gaactggagg aggcacgaag gacagtggag gccgctaaag ttactctgaa 240

agtcaaagag gatgatatta acaaaagact aaatgaattg catttacagg aaaaggatgc 300
 tgactcaaag cgtattgcat tggaagagca cgggaaaaaa ttggatgaga gagaagc 357

<210> 36277

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B2

<400> 36277

aaagagaatc cgggccctg tccagaagac ttctcagtta cgcaaaatc cccaaatccg 60
 cgggggagag gagagagccg gagagagggg cgcagccaga gagatcggag aaggggaaga 120
 agatggtgcg ggtggcgacc tacttcgcga tgaccttcgg ggcgttcctc ttctggcagt 180
 ccatggacag ggtccacgtc tggatcgccc ttcaccagga cgagaagaaa gaaaggatgg 240
 aaaggagct ggagataaag agaatgcagg cagagttact ggcccaagct aaagagaatg 300
 aatcatgatt gtcatttgtc caatggtttc aggcagttcc tttatcgat ttctctgct 360
 gtattttcca tgcaatatct tgactgatgt atgctcatgc tcagcacctc caataaagcg 420
 agacatgcta tagccattgt gaatgccagt ggg 454

<210> 36278

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B3

<400> 36278

cttcatgggt ttgctatttc tcggttataa ttattgcttc tcttcctcta aagaccaatg 60
 agaagtcagt gtggttcgtg atgattggca tgatcatatg aaaagtttga agagatatc 120
 ttttataatg acatgttccc tcacatgctt ggatgtttgg catttttcag tcatttagca 180
 gaaccaaaga catgacatgg cgacctgac tatttagtga tagcatggcg gctagtggaa 240
 tagaaactgg taaaaattg tacatttcaa acttggaacta tggggtctct aatgaggata 300
 taaaggagct gttttcggaa gttggtcatt tgaaacgctt tgctgttcac tacgatgggt 360
 atggcccgcc aaatggcact gcagaggtag tgtttacacg gaggagcgat gcaattgctg 420

cactgaaacg ttataataat gttc

444

<210> 36279

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B4

<400> 36279

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tttaaataat gttagtcttc tagaggactc aaagtcatga cgagttcaac atgtactaca 120
tatctgatct cataactata cgtggattgt ataccagctc aaacaacttc attttaaaag 180
ttaacaaaga atctctttga tacttattta aagagcctga aatatcacat agattatttt 240
aataaactat ccaaataata ctatgaatat tta 273

<210> 36280

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-A1

<400> 36280

cggacgcgtg ggcaaacata ttgaacataa tttaaactgt tcgaaagtat tcaattgata 60
gggatttagt accaactgga tcagaattcc accctgggcc tatccccatt ctcaataagc 120
atggagatga tgtcgaagag gatcacgtgg atgggtgcatt ttcattgtca tctcgcaatt 180
ttgatagctt ttcacaccaa tatectgttt tggttgtcaa cttctatgct ccctggtggt 240
actggagcaa tcgactgaaa ccttcatggg agaagacagc ttaaataatg agggagagat 300
atgaccctga aatggatggg agaatccttc taggcaaggt tgactgcact gatgaagttg 360
aattgtgtag gagaaaccac atacaaggat acccatgcat tcgtgttttc ccgaaaaggt 420
ctgatat 427

<210> 36281

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B5

<400> 36281

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tccacatcgt ccggagcccc cttgtcctca catggctgcc accgatgtga gcttcgttta 120
tttaccgtgc gtttagagca agcaatggag caggaacctc tgggcctggg taatcaagcc 180
agagatccgt tgtgtcgcag cggcagcggc agcggcagaa caggttcact aaccaacgga 240
aaaataactgt caaagctcca catgagaacc gcctttattc ttcaatgtat tcatgcttat 300
tcc 303

<210> 36282

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-B7

<400> 36282

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ggggcgtgca acatttcact tgtgctgctg catcattggg tcatgggttt tacaggtata 120
gggtcaactag gctcaaagat acacaggtta tgcgagatca agatctactg taccatgaat 180
taagatttaa gagagagacg ttgtgcccct cttgttacga cacttgatga acagcatagg 240
gaatgatacc atcatagttt tagtagtc 268

<210> 36283

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-G11

<400> 36283

aattccgtcg acccacgctc gctacctgc gacctactct gacttcactc ttatctccac 60
cgatecatga gctataaact ctaactccgc cggccactcc ttccccaaca cccaacacat 120
ctcaacctct gctatgcgca atgcatacat ccagaccgaa tcacgccgtc ccttgccaaa 180
aatctcccaa tgtgatgacc acgatcccgc ttgcccacaa cgatttactt tcatattcca 240

caaaccaga catgacaaa actgctgcaa ctgccaatac acaggatcat ctttcaagca 300
 ccccaacaact gataagctag actcttatcc tgcataacct tgctccaaga aatcccttcg 360
 ctgtc 365

<210> 36284
 <211> 317
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-048-Q1-K1-G12
 <400> 36284

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 caaaagcggt taccaatggt gagcaggtgg atccaagac tgaaactagc acatccacca 120
 gtaacgtgca caatgaatct caaggggctg atagcagttc tggatcaaat aactcaattg 180
 gtaacggccc tgaacaaacc ggtaaaactg aaaggcagtg ataccactat ctagacacga 240
 acattgtttt agtataaaag agttgattcc tggagattga agaggctagt actgaaccaa 300
 gaaaaactgt tcacatt 317

<210> 36285
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-048-Q1-K1-G2
 <400> 36285

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 gtgtgatgcc gcaaggcttc ggcgccacca tcagggccat caacggcgcc ctcgagtgca 120
 acgggaacaa ccccgcccag atgaacgcgc gcgtcggcta ctacaagcag tactgccagc 180
 agtcccgct cgaccaggg cccaacctca cttgctaggc cagcagctcc tgctagctcg 240
 tccacaataa atgctcggcg tcgcacctc gcgaaaccaa gagtttactg actagtacga 300
 gctaactagc atgcagtaat aataatcatc gtaataataa taataaaacg acggggctga 360
 gccactttgt tcgacctgta tgaataatga aacaactgta tgttccctcg gt 412

<210> 36286
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-048-Q1-K1-G3

 <400> 36286

 ctctgcggcg caacggccac accttccccg gtcccgcctc cgtctctgtc cagcgggcct 60
 gcagtctgct cgccgaccgc ccgcctgtcc ctccctctctc gccgccatga acaacctgct 120
 cacggattcc tttgagctcc ctccagcggga ctctcaaga gacgcagata ttgaaatggg 180
 aatgcatcat gctgatgctt cagacaactt gaaagatttc ttgaagaagg tcgatgcaat 240
 tgagagtata attgcaaagc tgacaaatct attgaataag ctccagactg caaatgacga 300
 atccaaagca gttacaaaag caagttccat gaaagcaatt aagcagcggg tggagaaaga 360
 tattgatgaa gtgggggaaaa ttgctcgtca ggcaaagaca aaagttgatg aactggaaag 420
 agataaccta tcgaataagc aaa 443

<210> 36287
 <211> 105
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-048-Q1-K1-G4

 <400> 36287

 ctccagctgc aacgacacta gcatcatggt tttcttatta tccggtgttc agcgtcctgg 60
 cgaaagggag ccatactcag atgaagggat tgcttccatg acgac 105

<210> 36288
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-048-Q1-K1-G5

 <400> 36288

 tctatctcga accttggttc gccgcacggc atcagaagca cggccgtgtt ctcatcccgt 60
 ccagacgttt ccgcctcccg agccacgtcc gcggttagcc gcggccgaca cagctcctcc 120

tcctcctcgc agctcttctc cagctctcgg aggcccgagg ttcatcgcac ccgcgctcct 180
 tcatcctcga cacctcactc cggcggtttt tttccgcagt gctgcacatc gcgagccgcg 240
 cggcacagcc gcacttggtg tccttcgtgc gtgggggtgcg gttcgacgcg ggcggcggga 300
 tggcggcgag cgcgcgggac agcaccgatg cagcggagcg agttgtggat gaccacgacg 360
 gctgggcgtc ggacgccgag atggacgtgg agatggatgt ggtggaaggc gatgccgacc 420
 ggagggacgg cggcg 435

<210> 36289

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-G6

<400> 36289

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 tatgagaagt ccttaattct tctaggacta atgaagtatg aagaagctct ggatgagttg 120
 gagcggctaa aggagattgc acctcatgag agtagtatgt atgcactgat gggaaagatt 180
 tacaagcaac tcaatattct tgacaaagct gttttctgct tcggcattgc cctggatttg 240
 aaaccacctg ctgctgatct tgctataatt aagtccgcaa tggagaaagt acatcttcct 300
 gatgaactga tggaggatga cctataagtt cactcaagca 340

<210> 36290

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-G7

<400> 36290

acaagccaaa gttgcaaaga tggcttgatg agtttgggga gtactatagc agagttgtgg 60
 tagggctttc tttggttggt gcacttgagg gaccattact ttttaagtgg cctttttttg 120
 gtaactcagg ggttcaattt accgtggatt atgacttatg gtggctgcat ctccctgtgc 180
 attggctgta gctccattgg catatgcaac tgcaatcagt tctcttgcta gtaagggaat 240
 tttgttgaaa ggtggccatg tcttgatgc tctttcgtct tgtcagtcta ttgcttttga 300

taagacaggc acactaacia ctgggaagct tatgtgcaaa gcaattgagc ctatccatgg 360
acatttgggt gtgaaaagtg gtcgtagtaa tccttcttgc tgcactccaa actgtgaaag 420
tgaagcatt 429

<210> 36291
<211> 311
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-G8

<400> 36291

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ctcgaagctg caccatgccc aaaaagtga aatgttctgt attgaactaa actattgcac 120
aataatggct atactcgagg gctttctggg tggagtctta tgggttcatt tcgattgagt 180
atccagactg aagcaccaca tatgttacct tctatcttga aagaccgtgc aagccagaca 240
catattagtg gtcattatat tcttgccacg aaccgtacag atgttcggat gggtccttac 300
aggtcataac t 311

<210> 36292
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-G9

<400> 36292

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cacgaccatc ttaaacttac ccgagcccta caaaaccagc ctaatccaac ttacttatgt 120
actataccat ctttactact tatactacaa ccagctgtct taccaacac 169

<210> 36293
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H1

<400> 36293

cccacgcgtc cgcccacgcg tccgcccacg cgttcgggaa gggttgtgtc ctagccagcc 60
 ggccaagatg agctgctgat ggtaatgatg atgataagag gccactgcta ccctactacg 120
 taccctcctc tttgtgtgct gccatccgtc cccgttagac gatcgaggag agaataacgc 180
 agagctctct gctcccggcc tgtcttctgc cgtcccggcc gtttaattta ctagtgtgtt 240
 cgtcctatat gtttagcagc agcaggtgta ttgtgcgggt atgtaatggt attgcaacta 300
 tattgggtgt 310

<210> 36294
 <211> 312
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-048-Q1-K1-H10

<400> 36294
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 ctctgtactc actcttacgc tcttattagc tctaggctct agctagccgc gccactcctt 120
 cgtgtagcca tcagccttct catcgccacc aatggccact gccgaggtcc agaccccgac 180
 cgtcgtggcg gccgaggaag cgcccggtgt ggagaccccg ccgtcggccg tcgtgcccga 240
 ggagtctgcc cccgccgagg ccgatgccga ggccgaagct gctgctcctg ctgatcccga 300
 ggagcttccc gc 312

<210> 36295
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-048-Q1-K1-H11

<400> 36295
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 cgggtgcagct tagagaatag atgcagatag cagggatgag cgacgagcgg gtgaaggcgg 120
 atgcgtgca gatcctgggc ctattccaag tgctacaccg cctcggcgtc ttcgacctcg 180
 actataccct gtggcccttc tactgcgagt gccgggtccaa gacggattcg ccgagccttt 240
 tcaggcacgc caggggcacg atgtacgcc tcaaggagaa cgggatcgac atggcgattg 300

cttctggatg cccacccccg gacat 325

<210> 36296

<211> 189

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H12

<400> 36296

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tctggccctt ctactgccag tgccggtcca agacggatac tccgagcctt ttcaggcaca 120

ccacgggcat catgtacgcc ctcaacgaga taccgatcga catcgcgatt gcttctcgct 180

tccccaccc 189

<210> 36297

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H2

<400> 36297

cccacgcgtc cgccaacggg ctcaacatcc ttgacatcat cagcgcgac ctcggggccg 60

aagctgcgct gccgtacctg agccccgagc tccgagggga gaagctgctc gtcggcgcca 120

acttcgcgtc ggccggcgctc gggatcctca acgacacagg aatacaattt gtgaacatca 180

tcaggatcgg cgaccagctg cagtacttgc gggagtacca gcggaagctg cgagccctcg 240

tcggcgagcc gcatgcgacg cagctcgtga accaggccct cgtgctcatc acgctaggcg 300

gcaacgac 308

<210> 36298

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H3

<400> 36298

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gatccttctt cactgctgca ggggaggagg gctctctcgt tacgcccgcac catgcacggg 120
tggttggtact tgaatcaccg gaggcagcat cagaagaagc agaaactcga gaagtttgctc 180
tttgatcaat tacgaacagg cttgcatctg ggcgtgggct ctatttgcag cgtgtgctac 240
tacataatct actggtacat tcatatcata tgacatttac tattttttgc accttgagac 300
attgcttagt acttctgtgt tgccttggtg aaagagagtg gtaaggcttg gatccgctga 360
tgctcttggt taaaaaaaaa acacttccag actaaag 397

<210> 36299

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H4

<400> 36299

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cgagcgcaat ttgatgcgc cctaggaggc actggtgcct gtactagaat caccgaagc 120
atcatcataa gaagcagaaa ctgataagt ttgtctatga tcaattacga actggcttgc 180
atctgggctt gccctctttt tacagtgtga gctactacat aatctactgt tacattcata 240
tcatatcaca ttctctattt ttggccactt gagacattgc ttaatacttt tgtgttgcct 300
tgtgaaaaga gaatggtaag gttttgatct gctgatactc ttgttt 346

<210> 36300

<211> 274

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-048-Q1-K1-G10

<400> 36300

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tatganctct atgctctagc tagccgcgcc actccttcgt gtagccatca gccttctcat 120
cgccaccaat ggccactgcc gaggtccaga ccccgaccgt cgtggcggcc gaggaagcgc 180
ccgtggtgga gaccccgccg ccggccgtcg tgccgaaga gtctgcccc gccgaggccg 240
aggccgatgc cgaggctgct gctcctgctg atcc 274

<210> 36301
<211> 239
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-048-Q1-K1-H6

<400> 36301

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ttctgccgtg tgtgtatgta tacagggtgc ggctgtatgg gtagatcagg ctatatatat 120
aacagactgt gtgctggtct attattgcc tcatttcaaa tacttatttt ttccgccggt 180
attaataata ttattacatg gagtatggca ttagtataaa aaaactatga taacaaaaa 239

<210> 36302
<211> 155
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H7

<400> 36302

gccacgctc gccacgctc gccacgctt cgcgacctgg ctcaggtaga gtggagcacg 60
ttcacagatc cagcattatg ataaactgcc attgcaatta accttgaaac caactagatc 120
ttaagactt ctaaaatacc atgaacatat tatca 155

<210> 36303
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-H9

<400> 36303

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cccgcctcag aattttcatg agacagcgag gagaatctat cctatataca ccttgactaa 120
cagcaagagc tataaactgt caataacagc tctacagtgc aaaagctcta tcaactacct 180
gatcgactac taattacat tgatacactt atattcaagt cactgaaga ccttttacia 240

ccctacatca ttactattat atgctattgc aatccatgaa actccacaca cttcaat 297

<210> 36304

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E4

<400> 36304

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tgagagggggc ccgaccttga ctggtacaag ggccgaaccc tacttgaggc tttggacttg 120

atcaatgagc cgaagaggcc ttcagacaag cccctgcgtc tccccctaca ggatgtgtac 180

aagattggtg gtattggaac tgttcctggt gaacgtgttg agactggtat catcaagcct 240

ggtatggttg ttacctttgg tcctagtggc cttactactg aggtgaagtc tgttgaaatg 300

caccatgagg ctctccagga ggcccttcct ggtgacaatg ttggcttcaa tgtaagaat 360

gttgctgtga aagatctg 378

<210> 36305

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E5

<400> 36305

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caaggctaca tgcacagttt tcacaaatgc gtccctgttg aatggcgcct tcaatacgtc 120

ctcgcatgcc catgtttgca cctggtgtcc ctggagtctg tcagcatctg gtctatggtc 180

agccaccacc agccttcac aaccctcagg ctggatttgc ttttcagcaa cctctgatgc 240

ctggtatgaa gcctgggtgt ccaatgccga actttatgat gcctatggct cagcaacgac 300

agcaaccaca gcgtcctgct tgtaaactgt ctgggtggaat gcagcaaccc atgccaatgg 360

gtggtcaaca acaagtggtc cct 383

<210> 36306

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E8

<400> 36306

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ctcgcgtggc cgcagcccca gggccccgcc ccagcaacgc cgtcgccgcc gcgccggccc 180

ggtcagccgt cggaggctat caggaagggt gtgttcgggg gtcaggtcac cgaggaggag 240

gccgacagcc tcaccaagag gaagccgtgc tccgcgcca agtggaagga gatgactggg 300

agcggcattt tcgctgccgg gagcaatgga aacgctgggg 340

<210> 36307

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E9

<400> 36307

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acacgaccac ataacaaagc acttgcgcaa tcaccatacc aaccgtccct gcaaactctt 120

ctccgtttca tcgcaatatc ccagaaccaa cttcagcttt attaccggcc tgtcacactt 180

tatggaattt cacaatccca taaatctgat cttgtttgcc gtaacgatcg ataaccttct 240

ttgtcaaaa tgtaccgatt gcatcgaacg aatggccaat agcctcacct ggctactaat 300

catttctctg aacttcacat t 321

<210> 36308

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-F11

<400> 36308

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aggtctgctc aacgcgaccg gcggcatcga ggcggagaag gacgcggcgc ccaacctgac 120

gctgcgcgga ttcgggttca tcgaccgcat caaggcgctg ctcgagaagg agtgccccgg 180
 cgtggtgtcc tgcgccgaca tcgtcgcgct cgccgccccg gactgcgtcg gcgtcatcgg 240
 cggtccgtac tggagcgtgc cgacggggag gcgcgacggc accgtgtcca tcaagcagga 300
 ggcgctggac cagatccccg cgcccaccat gaacttcacc caactcctgc agtccttgca 360
 gaacaagagc ctcaacctcg gcgacctcgt ctggctctcg agggctcaca cgatcgggat 420
 cttcca 426

<210> 36309

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-F12

<400> 36309

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 gccattccct cgtgccctct ctccgtacct tcaaccttat ggctcctttc ttgcttgccct 180
 caacaatcgc caaataacag gactagctgg agccgctgag gatctttacg agcgtaagct 240
 atgacggccg gttccctgcg ggcaaaagaa cagaaaagga acctgtcttg atgtccacga 300
 cgtcgctagg ctgcac 316

<210> 36310

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-F2

<400> 36310

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 atcgggtgtg aaaaaaaaaa aaaaagaaag aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaggccg 180
 cccattttta agaaccacag cttactaacc caatcatgca accatataat tattctataa 240
 tgtcaccaaa atccaattca ctgcc 265

<210> 36311
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-048-Q1-K1-F3

<400> 36311

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 ccagcggcga actcgcgcgc ccaggcgcct gcagccggaa acccgccgcc ggcgccccag 120
 gcgcgcgcgc caggcaaccc gccacctgcg cccaccgcca ctccacctcc ggccccgacc 180
 actcgcgcgc cggccccgac cacacctncc cgggtccca caacgtccgc cccggcgccg 240
 acaactcgc caccgtctcc cccggcaagc ccgcgcgcgc ctcccgccac cccgccaccg 300
 tctccacca tggcgccacc tncgcgcag cccctccac ccgccacccc gccgccaccg 360
 gccgcgcgc cgcgcgcgc gagcgtggcc ccgactcccc ctgccgtggc gacaccggct 420
 gcgtcccca agagcccga gacgcc 447

<210> 36312
 <211> 163
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-048-Q1-K1-F4

<400> 36312

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 caccgccact ccacctcgc ccccgaccac tccgacccgc gccccgacca cacctacctc 120
 ggctcccaca acgcgcgtcc cggcgccgac aactacgtca ccg 163

<210> 36313
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-048-Q1-K1-F5

<400> 36313

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gaggacaaag ttcttagacc atgacgcttg gattcaattg gatggaattc taccatctat 120
gaaaaagttc cgcaagctag cagagttgct tgatatgtca ttgaagtcca tcacatcatg 180
ttgggaaagt ggagacctaa ttagatgtgg tttcacatca tctgaggtgc aaaatttcat 240
caaagcaata ttcgctgact cgctcttag gaaggagtgc ctaagatgga tcgttaggac 300
tccagcttag aatacagaaa cagcatatct ctgtctgtgg gtcaatgatt ttttttttca 360
tattcttttg tccaccatac catatagtga agtattaatt ggtatgagct cagtttgac 420
tgagacaga cttgcaatct g 441

<210> 36314
<211> 348
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-048-Q1-K1-F6
<400> 36314

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aggccagatc aagaaaagcg gggaggagca gcttccagat gcacctgagc ggcgggggcc 120
ggatgttgcc gccgaaacag ctgctgacca tcgtcatcat catcttctcc acgctctcct 180
tcatcaagct ccttctcttc accagctcgt cgtcctcgtc agcgggcttc acctaccgca 240
gcagcccggc gtgggacgca tacggcggcg gtaacgggac ggctaggagc gcgctcgct 300
tcaaggagct cgctctgctc cggtcogtca tcgccgcgcg ggcgcctg 348

<210> 36315
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-048-Q1-K1-F7
<400> 36315

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taccgttggc catgtggctc atggagagtc cactgttggt aaagctatat ctggtgttca 120
gactgttcgg ttcaagaatg agctggaacg taacattact ataaagctgg gttacgctaa 180
tgcaaaaatc taaaaatgtg acgatgacag atgtccgcga ccaatgtgct acaaggccta 240

tggaagcggg aaagaagata gccctctatg tgatgtgccc ggatttgaaa acactagaat 300
 gaaactactg agacatgttt cttttgttga ttgcccgga cagcattc tcatggctac 360
 aatgcttaat ggagctgcta tcatggatgg agctcttctt ttgatcgag catatgaaag 420
 ttgtccacag cccc 434

<210> 36316
 <211> 289
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-048-Q1-K1-F8
 <400> 36316

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 ggcggcgcgc ccgcctctgg ctcatgcggc gcgcgccttg tggacaagga ggtggacttc 120
 gacaactact tctgcacgta cgcctacctt taccaccaga aggagatgct ctgcgaccgc 180
 gtccgcatgg acgcgtacca ctccgccgtc ttccgcaacg cgcgccactt acagggcaaa 240
 gtggtccttg acgtgagcac cgggagcggc atacttgcta tctggagcg 289

<210> 36317
 <211> 318
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-048-Q1-K1-E12
 <400> 36317

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 naggacgaca ttcctcatgg tgccaataat gctgctgggtg tggagagcc actggatcct 120
 cgtgggtgacc ttcacgtgct tgctcgctgat ggtggagggt ccctacttcg tggcctgcat 180
 actgaagatc gaccagggcg gctgggtgcc gctgggtgggt gcgacggcct tcttcgtcat 240
 catgtacgtg tggcatttct gcacgggtgaa gcggtacgag ttcgagatgc acagcaagg 300
 gtccatggcg tggatcct 318

<210> 36318

<211> 217
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-048-Q1-K1-F9

 <400> 36318

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 gtgggtgtact cactataacc ggagcctgac atagtgatcg aaccatctta gtcacgctat 120
 ttatttaaca gctgatacaa attgatgtag caacaaagtt tttcaaaact gctattcata 180
 tttttatgtg attgaataat ttacacaaa tacacgt 217

<210> 36319
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-048-Q1-K1-G1

 <400> 36319

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 gacggcaagg ctgcggcgca cgtcggcgtg tacgagagca gcgtggagga gctgcacgtg 120
 ccgtacattg cccccgtgga gtgcggcggc cgggcggacg tcatgtgggt ggcaactccg 180
 gacgccggcg ggctcggcct gtacgcgtcg gctcacggcg gctccccgcc gatgcagatg 240
 agcgcgagct actacggcgc cgcggagctg gacagggcaa cgcacgtcca caggctggtg 300
 aagggggacg acatcgaggt gcatcttgac cacaggcaca tggggctggg cggcgacgac 360
 agctggtcgc cgtgcgtgca cgagcagtac ctgctgcccg cgacgcggta cgccttctcc 420
 ctgcggctct gccccctg 438

<210> 36320
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-048-Q1-K1-C12

 <400> 36320

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ccgatgatca tgtcttgcag cagcggcaag tgcgactgcg gctccagctg ctcttgccggc 120
agctcatgca actgcatgtc ccctaacgtg gagaccgccg acgtcagcag catcaagacc 180
atggctcctcg ctgcccgcac caccaaggcc agcgcggcg gcttcgaagc gggcaccgag 240
ggctgcccgt gcgactgcaa cacctgcaag tgcggcacca actgcagctg ctctgtgtgc 300
agctgcaact g 311

<210> 36321
<211> 172
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-048-Q1-K1-C2
<400> 36321

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gtctgcaggg tccttcgtgt caagttcacc atgggcctgt tcgagaacct ttaccccgac 120
tctagcctcg ccggcgagct ctggaaacaa gaacaccggg aactggcgcg cg 172

<210> 36322
<211> 286
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-048-Q1-K1-C3
<400> 36322

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ggagatgagg agcctcaagg aagaggagcg gaagaggggc ggggacagga atcccagagc 120
cgcacaaaggc aaggcctaac ctctcactcg caacggcaca cagcgaggt ctggaagttg 180
ccatgtcgaa cccttactaa tccccacagc ttacaatttt ctatggtgga tcactatgtg 240
tgtatgactc ggtgccacca gaaaaggctc atgcaatcat gcttat 286

<210> 36323
<211> 320
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-048-Q1-K1-C4

<400> 36323

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cgacagcggc aggtctggaa tgttgccgat gtctaaccct tcagctaata ccacacagct 120

tacaattttc tatggtggat cactatgtgt gtatgactct gtgccaccag aaaagggtca 180

tgcaatcatg cttataactg cggctgcagc aactgctgca accaccaaaa gcagtgtctg 240

cactgctttt aatcctccaa tgagcacttc tgtagcatct tgacaagctc aagttgttgc 300

tgaccctatc tcaataaaca 320

<210> 36324

<211> 98

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-C5

<400> 36324

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acgagtagtg gaaaaggtag cttcacaaca aaacccat 98

<210> 36325

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-C6

<400> 36325

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tctggcgtca ctgcatattc tggtcctat ccaacacatt gacacacagc atctaacttt 120

tcattccagtg aagacgcaca tagatccatc atcatactat agatcagaca gctgacaaca 180

cgctcgatac tcttactgca tcaacgaact cccactatta tcttcatcc ata 233

<210> 36326

<211> 361

<212> DNA

<213> Zea mays

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<400> 36326

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gatgaggtct aagcctataa ggtgttcaag gaccctgagt ccctgacaat cgacaaattt 120

ccttgagtgc gtgcactgat gatagagata ttgtattgat gtgggtgacg catgagatga 180

ctaagcaggt atatctaacg ttaactacat atcctaattg tagactaccc gtctagggct 240

tgggggtgttc ccctgtaat taccaactca ccctctgtat tgggcctggc ccatttacca 300

agtctattaa taccactcct agccctgatt aaggttatgg ttctcattcc aacatgggat 360

c 361

<210> 36327

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-C8

<400> 36327

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cacgaagcta gccagtaagc ggtagatggc gagcagcgcg gggaaccgct tcctgaggca 180

gctgagcgcg agcaacggcg acgaagcggc ctgcagcggc ctgcagatgg accagcacga 240

gtacggcggc gccggcgtgg agaggatggg atccccggcg tggtcgaaga agcgggccga 300

cgccgtcgac gccgctaggg gctacggcgc cggcaacggg aatggcgtga agcaaccggc 360

ctatgccgcg gggaagcggg tgatggtggg agtggacgag agctctggag ccaaccacgc 420

catg 424

<210> 36328

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-C9

<400> 36328

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aaagaaacac acaatcacia catctttacc atttttctgg cttactgcaa gcaaatacta 180
taccaggtta cttgatgtgc tcaaacttta cccctattca cgagttttac ttataccaga 240
tccttcatac acattcatgc tacaaaatat aacccatctg ttgcacctaa taatctgcca 300
ccaatcttca tgcaggagac ttcataacat gtaagctatc ccaatactca tactacgcat 360
catgttccca ata 373

<210> 36329
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-048-Q1-K1-D10

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cgtcgcccga cgagtcggcg cggtcgcgcg acgcgtgcga gcgcctgggc tgctttcggg 180
tgaccggcca cggcgcgccc gcggggctcc tggccgacat gaaggccgtc gtgcgcgcgc 240
tcttcgacct tcccgacgac gccaaagcgc gcaacgcgca cgtcatcccc ggcagcggct 300
acgtcgcgcc ctgcccgcgc aaccgcctct acgaggcctt cgggctcctc gacgccgncg 360
cgcccgccga cgtcgacgcc ttctgcgcgc gccttgacgc g 401

<210> 36330
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-D11

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cggccacgtc gaggtccgag tcctgctttg atggcgaccg acgtgactga gactcccgcg 120
ccgttggtgg atgcggcccc agaggcgccc gccgacgccc cggcgggcgc tgctgccgac 180
gcgaagccgg ccaaggccaa gaaggccacc gcgccgaaga agcgcgccag cccgaccac 240

ccgccgtacg ccgagatggt ctcggaggcg atcacgtcgc tcaaggagag gacgggggtcc 300
 agcagctacg cgattgccaa gttcgtggag gacaagcaca aggccaagct cccgcccac 360
 ttccgcaagc ttctgaacgt tcagctcaag aagc 394

<210> 36331
 <211> 350
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-048-Q1-K1-D5
 <400> 36331

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 gttgttgaag caaaggctgg aaagggtctc gcaacattgt ccatggcata tgctggtgct 180
 gtttttgcag atgcatgctt gaagggtctg aatggaattc cggacattgt agagtgtctc 240
 tttgtgcaat caactgtgac agagttgccg ttctttgcct ccaaggttcg gctcggcaag 300
 aatggagtgg aagaagtgct tggctctgggt gagctcaacg acttcgagaa 350

<210> 36332
 <211> 316
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-048-Q1-K1-D6
 <400> 36332

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 tatttgctgc ccttgggttt gttctgtatg gaggaagggt atttctgatg ttgcagcgtt 180
 ttctgtaga ttcgaaagga aggagaaaga aattgcagga ggttggctat gtgactacca 240
 tctgtttttc ttgtttcttg atcagatgcg tcatgatgtg cctcaattca tttgataaag 300
 aagcagatct tgatgt 316

<210> 36333
 <211> 396

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-048-Q1-K1-D8

 <400> 36333

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 ctcgctactg ctgccctcaa actcaagagg gaggtgatca ggaagacgta cgagaacgat 180
 ctggctgagt tgtacgcacg atggttctac tctttttgat acgttttagt tggaatatgt 240
 gtagagtgtc aatgtcacgc tgagatctat ggtaatttga taccgattat cgttctggga 300
 ttattattat tattttgttc aggtagaaga gatataataa ccttgaaatt ttgagttata 360
 tggcttctct tgatgccgaa aaactatatt gcgatg 396

<210> 36334
 <211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-048-Q1-K1-D9

 <400> 36334

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 gcatatccca agaaactacc atcaccacta tcgagcagcc tatagctatt gatcaagttg 180
 aacctgtcaa cctcaatgta catgaacttg tggctgatga tcatcaacct ggctatgctc 240
 caaggcgtga atctgctacg ctggataaac ctgcatgtac ttccaaaacg gatgattcaa 300
 atgagattcg tgaagatagc atatcactgg aaaatcagtt agaaatttgc aatgcaacta 360
 ctatgtctga tgagtgttcc tccacaaatg caaatg 396

<210> 36335
 <211> 271
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-048-Q1-K1-E1

 <400> 36335

ccactcgtc cgccacgct tccgccacg ttttcgttta ctcttaggct gactcatttt 60
 ctagtgcagt tcaccacct tccaattcc ccatcttctc cacgatccaa cacaacccca 120
 ccttcacatc aagcaatata ccgtcgtgta cccaatccag ccacacaagt ccacactcta 180
 cacagtcctt cgatcccttc cccctcttcc ttctcccaat tctcctcgat ctatccttct 240
 gctgtcctcg catctatagc ctttcaaaac c 271

<210> 36336

<211> 348

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-048-Q1-K1-E10

<400> 36336

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 ctgttgaggg ccccaaagtc tcaaataatg aagcgttaca ttttggaagt tcattactta 180
 aacattatga tgggcctgct aaaagattca agcaaaaata tcaggatatg tgccttcac 240
 atttttaagg tatttgttgc caatccaaac aagcctcgtg agattattca ggttttggtt 300
 gagaatcaca gagaagtgtt gaagctactt cacaatcttc ccacaagc 348

<210> 36337

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E11

<400> 36337

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 ctagtgatct ttaaataatt atatgacaca aaaaacaatc aaaaaaaaaa aaaggccgac 120
 cttcctaaag aatccaaatt tacttacaca ttcatccaac tcaataacta ttttatatta 180
 ccccaaata ttaattcact tgccaaattt ttaaacatc aatatttgaa aaaccctgtt 240
 ttaccccaat aaaatatcct ttgacaaaat ccccttttct ccagatatca tataagcaaa 300

aagccccaat cacatagacc tttcaaaaat tttc

334

<210> 36338

<211> 308

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-048-Q1-K1-C11

<400> 36338

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gcaggtggtg cacacaaact tttgccagaa ggcactagac tagctgtcac tcttcgtggt 120

gatgaatcat acgagcagct agatattctt aaggatgttg atgatataac aatgttggtta 180

cataatggtc catatgttga ggagaagaca ggcaggggtg atgctgctag gaggttattt 240

gagtacttac aggccaatgg cttgaacttc cctgtaattc atcacataaa tttccctgaa 300

accattga 308

<210> 36339

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A2

<400> 36339

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ccgttcgtgc tccgggcgcg catcgcggtc agcctcaaag gcctcaccta cgcttactcc 120

gaggagaacc tcgacgacaa gagcgagctt ctctcagct ccaaccccggt gctcaagaag 180

gtgcccgtgc tcatccacca cggcaagccc gtctgagagt cccagatcat cgtgcagtac 240

gtcgacgagg ctttccccgc cgccgcacct aatttccttc catccgacct ctacgaccgc 300

gccattgttc gcttctgggc ctctacgtc gacgacaagt tctacagcgc gtggataccc 360

gtgttcaagg gc 372

<210> 36340

<211> 421

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-048-Q1-K1-A3

<400> 36340

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gatgctgctt gggcccgagc ctgcggtgct gcagatgctg ctgcccctgc tgcagaggag 120
aagaaggaag agcccaagga ggagtctgat gacgacatgg gcttcagcct gttcgactga 180
gagtctgaga ccctcgctac ccagccatta gcaaattcgc ttatgctgtc caagacttat 240
cttacgttat gtctgtaggc ttttgttatt acaagtactc aagttttgag tttttgagat 300
gtggctatga caatgtgatg aagaatccta aaccatcgta ttagagtga aacttggttct 360
atataaagtt ccaaggttct tgaacctcaa aaaaaaata naaaaatatt aaacttaaaa 420
g 421

<210> 36341
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A4

<400> 36341

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ctaccgtgcg gggctacggt ccagacgacg ccgtcgacgt cgctccgtggg gctgtctcag 180
acgctatctg cggcgccctg agcgatcgtg cccatgacga cccggactta ggcgccgtat 240
gtgcgcctg 249

<210> 36342
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A6

<400> 36342

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tcaggtagat gtgttctagt tgaagggggg gggggtgttc tggaacttgg gtaaattggg 120
gaattctgaa tacagtgcaa atagaagtct gctccctttg gatattgac atgcatgaag 180
caaaatgtta tatctgaaaa gcgcgtacct tgtaccatag tatctagtct taggtgctcc 240
ttgcattaat atatagtacc tgaatatggc ccaaattatg tatctggata acacatgtag 300
c 301

<210> 36343
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A8

<400> 36343

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tcgggcaatg acaacgatga acatgtaaga accaaacaaa tcagagcacg accatcggtc 120
tctaataaaa acgcgcagca cgcacgtagc agagcgcgca tggggcttct ggaccagctg 180
tgggacgaca cgggtggccgg gccgtgtccg gactccggcc tcagcaagct ccgcaagcac 240
gcgtacttct cccctcgtc ggcc 264

<210> 36344
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A9

<400> 36344

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ggctttcttg ttctttatac ttgtgtgctt ctttcaactg ctccaaatat ttaaataagct 120
tacatgtgct cttgttacat tcagattgtt aaggagaacc aaatgcttca caaaggctct 180
gttgagattg aagatgattt tgctactctt gctgataaga gtatttttcc tggggatttt 240
ctctgggtca gagactctga aatatatgag aaccgtgaca ttgcagatga gatttcagaa 300
caaaaggatg atatgctac 319

<210> 36345

<211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-048-Q1-K1-B1

 <400> 36345

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 agtctgagtc tgttattagc tctaggctct agctagccgc gccactcctt cgtgtagcca 120
 tcagccttct catcgccacc aatggccact gccgaggtcc agaccccgac cgtcgtggcg 180
 gccgaggaag cgcccgtggt ggagaccccg ccgtcagccg tcgtgcccga tgagtctgcc 240
 cccgccgagg cccaggccga agcccaagct gctgctcctg ctgat 285

<210> 36346
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-048-Q1-K1-B10

 <400> 36346

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 aaagaaaaca ttaaaaaaac cacaaagccc acacaaaaaa aacaaaaaaa acaaacaac 120
 caaaaccaa caaacaccaa acaacaaaca aaaattaact tcacaaccac acaactaaca 180
 acctcttcac catccaaaac ctcaaaacc tttaaaaca caaaccccaa cccatcccca 240
 aacaccccc agtcaccaa a 261

<210> 36347
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-048-Q1-K1-B11

 <400> 36347

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 gggatggtgt ccattcactc tgtgcagcta tatggtcaaa acataggaga tggttgatga 120
 tgtcaatgat gtgtctcaat ccaatagctt gtgcgtttat ggatttgcaa ttcctaatg 180

ggcaactaac atatgttgct ggtgagggga tatcagccag tggttttctt ccgttatttg 240
gtgggttgct tcaagctcaa ggaaaatatc ctggagaaac aagagtgagc ttttcttgca 300
agaataagcg tggcacaagg tttactccta tgtttcaatg gcctgacaag tctgtttcgg 360
taggagttac tcaagccttg gcatggaaaa gatct 395

<210> 36348

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-B12

<400> 36348

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tacacgccgt cagctggacc ccgaccctcc tgcctcgtg gaggacttaa acgagggcgg 120
attggccgcg ttggggcgccg cggcgtcccg acgatcatgg gtacaggaga cggaagacgg 180
gtcgacagca ccggcaagcc acgatcacga gcgcactttt gagacgagaa ctggcgatcg 240
gcggaacttct tcgatgcaca tatatagcgt aggcatttcc atttgcgaaac ttttgctgat 300
ttctactact ggctatacac tagcaacca 329

<210> 36349

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-B3

<400> 36349

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aggatttgat catgtaacct caaagcgtca agatgattct attccggttg aaaaactgca 120
gaaccacag gtcgatgatt acagctggct agatagctat cagcaatcga ttgatcatgt 180
tcacagctta agaactatct atcctgggtg cagtgatact agcactgcat ttgccactcc 240
attctctttc cctgggagga tacacacaca agggaccaat gaaaagactt ggcaagattt 300
ccaccttttt gagccttcaa aacagaacat gtccaaact taccaccaa gaaatcttca 360
aagtggtaa aaggatgaac aagaaccagc aaattctatc tgggtct 406

<210> 36350
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-048-Q1-K1-B4

 <400> 36350

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 taaccacaaa gtcgatgatt acagctggct agatagctat caacaatcga ttgatcatgt 180
 tcacagctta agaactatct atcctgggtg cagtgatact agcactgcat ttgccactcc 240
 attctctttc cctgggaaga tacacacaca agggaccaat gaaaagactt ggcaagattt 300
 ccaccttttt gagccttcaa aacagaacat gttccaaact taccaccta gaaatctgca 360
 aagtgggtcaa atggattaac aagatccagc aaattctatc tggcttagca gttaccatgt 420
 gtgatttggt aact 434

<210> 36351
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-048-Q1-K1-B5

 <400> 36351

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 ctgggaatga aattacacta ggtgatccaa atcagggtggc agtcctgttt tctgaatggt 120
 gtcagatgcg taatcatgta agtgctagtg atgcggcata cactcgtttt gtcacacaat 180
 tgcagcaaga tggctctgct aaggggggatg atatctgtga acgcttcttc cggattctca 240
 cggaacttgc tgatacacac tctctagtct gcgagcaa atcgcttctcct ggtggatcat 300
 ctcagcaatc accacagcaa cctcacattt cata 334

<210> 36352
 <211> 58
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-B6

<400> 36352

cccacgcgtg cgaaaagata aaaaagtctt attcttcccc atcaaaccat gcataaac 58

<210> 36353

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-B7

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gcggcacgtg ccaccggcat ctctgctctg ctctcgcaag cacacgcccg gccgactgcc 120

acagttgcca tggcgaccat agccacgatg gcgctgctga agcccgccgt caaggccgcg 180

gcgcggccag cgccgtccac cagcagcgga aacctctcgc tgcccgtccc ggagcatgcc 240

gccaaaaatg ctgctgtgtc cgctgcgcgc tcatccacac tggccggcgc cttcttcact 300

gcgctagcgt cgctgaccga cactgcgctg gcggacgtcc ctgcagccga cgccttaggc 360

gacagccgtg gtcagctgct gctcatcgtg gaggctcccc tcatccagtg cgttatgtac 420

aacatt 426

<210> 36354

<211> 402

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-B8

<400> 36354

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caagtcgaac gacgccatca ggctgcgcgg caactacttc ggcccgccgt gcgtgacggt 120

gacgccgctc caggtgctgc agggctacgt gaaggacacg agcttcgtcg ccggctgcaa 180

ctcggccgcc tgcaacgtca cgacgatccc cgaggcggtc caggcggcga gtcggcgga 240

ctccgtcgtc ttgttcatgg ggctggacca ggaccaggac agggaggaag gtgaccggct 300

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aaaaccggtg atcctggtgc tgctctgcgg tgggcccggtg ga 402

<210> 36355
<211> 415
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-C1

<400> 36355

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cagcttagat gagtgggacg aggagtacga ccgaggggaag acgaagaagg tgcggagatc 120
aaagcaagac tttggcgggc caaacccgtt ccaggaggag gcggaactacg tatcgcagcg 180
gaggacgaag cagaaatcct accgaggcaa gtcttggaac aagcgggcct aacacggtag 240
tagaggggga gttgagagaa tacgcgagag agaatccctg gacgcacatg ctgtttgttg 300
ttacgtttta gcaccattg gtgaaggaga ttacgttta aaaaccatat ccgtcgtcgg 360
tacggtagtc ccattagtt gtcgacgata tgacgttttg tgcagttttc gtaga 415

<210> 36356
<211> 325
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-048-Q1-K1-A12

<400> 36356

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cggcctcgcc tgtgccacgg acgaccactc cctgcacaac gccttcagca cctacggcga 180
ggcctcagag tccaagatca tcctcgatcg ggagacgcag aggtcccgcg gcttcggctt 240
cgtcaccttc tccaccgaag aggcgatgcc gaacgccatc gagggcatga acggctagga 300
gctggacggt cgcaacatca ccgtc 325

<210> 36357
<211> 426
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-048-Q1-K1-C10

<400> 36357

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gaagaatgca gctgggctcc catctttgtg aggcagtcaa atttcaagtt acctgctgat  180
ccgtccactc ctattatcat gattggctct gggacagggc tggctccttt tagaggcttc  240
ttgcaggaaa ggtttagcatt gaaacaatct ggggcagaat tgggcacttc aatccttttc  300
tttggatgca ggaaccgtaa tatggactac atatatgaag atgagttgca aactttcctt  360
gaggaggggg cgctttctga gctaattgnt gcattctctc gggaagggcc aacgaaagaa  420
tatgtg                                           426
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<210> 36358
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G8

<400> 36358

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ggacgccacc aaggcgagga aggtgctcaa gtggaagccc aaggttgggt tccaggagct  180
cgtggagatg atggtcgac acgacattga gctcgccaag aaggagaagg tcctggtgga  240
tgctgggtac cgtgatccca agcaacagcc atagaaacat cacagttgct tcttgctctt  300
gtggggctcg gattcaaatt gttcccctca tacatggtgg ttctcagggg tagaggttga  360
ccgaagttac tatcgatatt tatcctggta agaaat                                           396
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<210> 36359
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G9

<400> 36359

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tcgcccaccc tgatggtaca tgtaccgtgt acgtagtctg ccgtcgggcg ctgatcatgc 180

tcgacaagtc tagtgtctgc attatactcg tcatacccat caatacaaaa gttagtctaa 240

tggtagaacac aaagctggag agtaccatgg tgagcacaag ccaaaagcac aaagaggggt 300

tcctagacaa agtcaaggac aagaatcatg gtgagcgctg taccggatcc agccttacga 360

acaataacgg caacaagaat aatgagcatt ggcatgacca tagtcatgac aactggacca 420

gcatttacia cgattaaact 440

<210> 36360

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H1

<400> 36360

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gtatataaac aactggacca aaccaagtc cagacccgca gcgcccgcg gaggcggagg 120

gaaccgagcc ggcgaccggc agaccgcaga gaagaggcct ggagccgacc gcagagaaga 180

ggccaggagc cgaccgcagg cagccgccac cgcaccagaa cccgaggtct cgaggcaatc 240

gagcgcacgc gggtcggggg ctgcggccat gtcggtgagt tgcgggctcg agtgggtggt 300

gtgccttggc tgcacgcggt gggcgtggaa gcggctcacc tacatcggcg cctacgacag 360

cgagacgtgg ccgccggcgt acgccgacga gttcgagccc gtgccgcgcc tctgacgcgc 420

cgtgctcgcg aactacgacg aggagc 446

<210> 36361

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H10

<400> 36361

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 tgcccatggc tcttacctc ttccagtgtc ttgcacacaa gggagtatcc tctcttgacc 180
 tggacatctc aattacgttg ctgtaccgaa tccatatcta ccatcttcag gtaacaagtg 240
 atttggtgtc ccgtgtgggt aatccaaatg catgcattgc tctgagtatt gacagggttg 300
 ctagtgtaac gtgtaagtc aaaccatata gtatccaaac atgcgtattg taggtctttg 360
 atcgatattt gtgccgagtt ta 382

<210> 36362

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H11

<400> 36362

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 acaccggcat cttatcacia tgcaagccca cgctcgctat cgactactgt atcatctctc 180
 tatactgcga ccaatcatct gttcaattga ctgtcacttt caaccatact attggtgcaa 240
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<210> 36363

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H12

<400> 36363

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 gtcgacgtgc tcatgacgca cgacgtctgc gggcccggcg ccttcgacat cttcaagaag 180
 gagttcgggg aggacgccag ggtctgggac cgcgagaagc tcgtcgatcat cccggaccac 240
 tacatcttca ccagcgacga ccgcgccaac cgcaacgtcg acatcctcag ggacttctgt 300

gcgggagcaga acatcaagta cttctatgac atcaaggacc tcaccgattt cagggctaata 360
ccggactaca aaggcgtctg ccacatcgga cttgctcagg aaggccactg ccgaccaggc 420
gaggttctct tgggcactga ttctcataca tg 452

<210> 36364
<211> 132
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-047-Q1-K1-H2
<400> 36364

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ggacgccagg ga 132

<210> 36365
<211> 241
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-047-Q1-K1-H3
<400> 36365

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gcccatggat gtcttaggat acctgcgaat aattcaccaa cttgaatgac caacagctac 120
aagtgattag gccctaccct attaaatata cgaccttacg tactcactga tttgaaagaa 180
tcagatcttt tatatggta acgctatacc atcaactgta cgtagttgct caccatgcc 240
t 241

<210> 36366
<211> 463
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-047-Q1-K1-H4
<400> 36366

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 tggaaatgga gcacaagata atgaggaaaa gtctgttttcg atggaaactg atgcaaaggt 240
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 ggctttggct gcagctgacc tgcagaaggc tgtagagaaa gagtatgaga tggctcttca 360
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<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H5

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 ctctcaggta cgagttccca tctttcgagt actcgtcgcc gccgctgttt tgcccttttc 180
 cagccgctcg ctgctgcagc agaaaggatg caccgccaga aatggagtcc ccccagaact 240
 ggatgaccaa gctcttgatt ggccctcgcc ggaaatggag tccccccagg cgcaaccaac 300
 cttatccctc tcaacgagat agttgtcgac atcaatggaa catttgtgcc ttactgagt 360
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<210> 36368

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H6

<400> 36368

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ctgacacaga tctgggctag cctgcatcgc tcgcaccgtc ttgtgtgcaa ttctgcttgt 180
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ggccatgcct gacacctata cgtccatggc tg 272

<210> 36369
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H7

<400> 36369

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agggtggttag gcgctagcga attaaattaa ggccggccga acctcactgt cttgaaagat 180
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cccacgttag agtcacgatt tttttttttt gaggctggag aaagatctga cgatacttca 300
tgtgtgcttt ctttctgacg atggttccat acaagggctt accaaag 347

<210> 36370
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-H8

<400> 36370

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gttttgcata tattggtata tatgggaagt cattgcagca agaagcttca tatatttgtc 180
gactgatgac agctattgaa tcaagagtta cgcaaggaga gcaagatggg gctcatgacc 240
catcaattca tccctgggtga ggcttctat ccacaaaaga tggcttcctt acacttcttg 300
actgctttat aaaagcataa tcattatgtg tgcttcagaa tgtatgagac aatgcacggg 360
caagaga 367

<210> 36371

<211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-047-Q1-K1-H9

 <400> 36371

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 ggtcacctgc cgttgagcca acatgcacgt gacaaagagc ggttcgcggc gcgttcgatt 180
 ggaggccgta tcgcgcggga gctttgcggc tccgatggca ttggactggg atatattcag 240
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 tcagtcgttc tgcacgagg agct 324

<210> 36372
 <211> 470
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-048-Q1-K1-A1

 <400> 36372

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 tcgcgaaatg gacggcgggc gcccggaaggc gaagaaggcg gctgctgggc aaaagctagg 180
 cggcgggcggg ccgaaaagga agccggtgtc gcggtcagtt aaggccgggc tccagttccc 240
 cgtggggccga atcggacggt acctgaagaa agggcggtcc gcgcagcgcg tgggcacggg 300
 cgctcccgtg ttcttggccg ccgtcctcga gtacctcgcc gttgaggtcc tggagctggc 360
 tggcaacgcg gcgcgcgaca acaagaaaac ccgtattatc ccgcgccacc tccttcttgc 420
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<210> 36373
 <211> 263
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-048-Q1-K1-A11

<400> 36373

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ccctatctca aatgctatct tatacaagat actggggccc tcctttcaac tgctccaaac 120
atcaacaaaa cttacatct tctcctacta caatcacatc attaactaca cccacatcct 180
taacaaatcc tccgataaca tcaaacaatga ctacgtact actaatcaca ccattattat 240
tcctacacca tcttatataa ctc 263

<210> 36374

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-047-Q1-K1-G7

<400> 36374

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gaaccgagcc ggcgaccggc agaccgcaga gaagaggcct ggagccgacc gcagagaaga 180
ggccaggagc cgaccgcagg cagccgccac cgcaccagaa cccgaggtct cgaggcaatc 240
gagcgcacgc gggtcggggg ctgcggccat gtcggtgagt tgcgggctcg agtgggtggt 300
gtgccttggc tgcacgcggt gggcgtggaa gcggctcacc tacatcggcg cctacgacag 360
cgagacgtgg ccgccggcgt ncgncgacga gttcgagccc gtcccgcgcc tctgccgcgc 420
cgtgctcgcg aactacgacg aggagc 446

<210> 36375

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-F3

<400> 36375

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cgagaggtca caactttggt tcacttggat cggccaatgt atttattagg atatcttgca 180
 aaccaaagcc gtgtctatct tattgataag caatttaatg ttgtggggta tactttactc 240
 cttagtttga tgaatctaa aacacttgtc atgcgtgcgg atttctatcg cggaatgat 300
 gttatatcat ctataccaaa ggaacaatat gacagtgtgg cgcgtttctt ggaatcacag 360
 tgaatgttgg acgaagccct cgagatagca actgacactc attacaagat tgacctggct 420
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<210> 36376
 <211> 457
 <212> DNA
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 <223> Clone ID: LIB3069-047-Q1-K1-F4
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 gtgaagaaca agaagtacct tgcagttgct gtgccagatg atgggtgccca gacccttctg 180
 gttcacgcca ttgatgcttt tgggtgggaag tgcaaccctg atgcgctgaa agaggttccc 240
 gttgtcctca aagccctcta cgatggagat atcctggacg aggaaaccat tgtggactgg 300
 tacaatgatg ctgtcgcagc tgggaaggac tcccagggtg tcaagaatgc caagccgttc 360
 gtcgagtggc tccagagtgc cgagtctgat gaagatggtg acgacgagtg aagaagccac 420
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 <211> 432
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 <223> unsure at all n locations
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aagacctgtc ctctgctgct cagggttttc acaagggttg ctggtcacca ccaaaatgaa 240
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gcgaccctac gcgagctcac tgatcttggtg aaagagggttg ctcttgccagc aagaaaaaag 360
aatgcaaggc tntcttttgc atttgtatac ccagacaaga atggtcgatt tgggtgcaga 420
cagggtgggtt cg 432

<210> 36378

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-047-Q1-K1-F6

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aacaatgct accgttgtgg cgaaaggggc catatagaaa gaaattgccca gaacagtcca 180
aggaacctca ggcgtgagag aagctattca cggctctccat cccacgccg aggcaggggc 240
cgcagccgga gctacagcag aagccggagc tatagccgat ccagatccac gactggatct 300
actaggggtg gacgccgaga ccgtgatgag aggagatcaa tgagtcttag ctacagcagg 360
agcgcaagcc ctangcgttc tgtgt 385

<210> 36379

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-F7

<400> 36379

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gattgtttta gcatattcta gtatctgttt tttcttatac ttaaagaatt gaattgtgtg 180
atgatagata ttttcatctg gacacagagt aaagaattct cgactctctt gacttgacga 240

ggctatataa ctagagacca ttagaggaga actgaagact gagagcattc tctgcttata 300
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 cgaatccac accatgtggt gttcttcctc tatcgaataa acgttggttc gcttgcttaa 420
 tcatcagttc gatagggcat tgaaag 446

<210> 36380
 <211> 103
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-047-Q1-K1-F8

 <400> 36380

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<210> 36381
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-047-Q1-K1-F9

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 cggcacgacg tactcttgcg tcggcgctg gcagcacgac cgcgctgaga tcattgccaa 180
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 cggagatgcc gccagaacc aggtcgccat gaaccccatc aacaccgtct ttgatgccaa 300
 gcgtctcatc tgcaggaggt tcagagatgc gtatgtccag agtgatatca agctgtggcc 360
 cttcaaggac atctctgggc ctggtgagaa gccaatgatt gttgtccagc acaagggtga 420
 g 421

<210> 36382
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G1

<400> 36382

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agattgcttt agcatattct agtatctgtt ttttcttata cttaaagaat tgaattgtgt 180
gatgattgat atcttcatct ggacacagac taaagaattc tcgactctgc tgacttgacc 240
aggctatata actagagacc attagaggag aactgacgac tgagagcatt ctctgctcat 300
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<210> 36383

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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cggatganga agacgcggtt ggggggagag cgccgaggta cggcgtgacg tcggtctgcg 360
ggcggtgag agacatggag gacgcggtga ccgtccgttc ggagttcatc aacggccacc 420
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<210> 36384

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G11

<400> 36384

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 tcacttgatg tacttcatgc accaccgata attcccaagt cactcaacag agcctacatg 360
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 ca 422

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 <211> 96
 <212> DNA
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<210> 36386
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-047-Q1-K1-G2

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 caaagtcttc tgggttacct ctttgaagc ggtgagcccc ccaaaccagc agtggcacca 180
 gctgtaagtg ctccacctgc tgctgcaggt gctccacctg ctgagaaacc acctgctgca 240
 aagcctgatg gcaccagtca gattgctgct ggggttacca gccaaaccaa taactaccac 300
 agggccgacg gtcagaacac cggaaacttc cttacggacc gtccttcgac caaggtccac 360
 gctgctcctg gcggtggctc ttccctggga tacctgcttg gtggcaactg atgccgctca 420
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<210> 36387
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-047-Q1-K1-G3

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gaaccgagcc ggcgaccggc agaccgcaga gaagaggcct ggagccgacc gcagagaaga   180
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cgagacgtgg ccgtcggcgt gcgacgacta gttcgagccc gttccgtgcc tctgacgcgc   420
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 <211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-047-Q1-K1-G4

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aaggcggacg cggggccttc cgacttcgac gccacttgg atcgccctctt cgcttgcacg   180
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 <211> 353
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 <223> Clone ID: LIB3069-047-Q1-K1-G6

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 <211> 362
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 <223> Clone ID: LIB3069-047-Q1-K1-F2

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 <212> DNA
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 <223> Clone ID: LIB3069-047-Q1-K1-D7

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 a 421

<210> 36392
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 <213> Zea mays
 <223> Clone ID: LIB3069-047-Q1-K1-D8
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 tccggtaaag cacatttttg gactcatcta ccaggatacc cgcgtaatgc tcaacatctt 240
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<210> 36393
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 <223> Clone ID: LIB3069-047-Q1-K1-D9
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<210> 36394

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E1

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<210> 36395

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E10

<400> 36395

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caagattaaa ggcgataact ctggagatgg cattgagtcc cttataaaca aagtagaaag 180
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aactgaagca gaggagatag ctaccgagtg ggtgaagcaa gccaggaaac gcgctcttgc 300
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acaaccattt acccttcctt ttcttcgacc gcatttgccg gtactccttg caaccgcata 420
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-047-Q1-K1-E3
 <400> 36397

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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-047-Q1-K1-E4

 <400> 36398

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<210> 36399
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 36399

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 cttagatcaa ggaccggttg cctgtggggc ttgagatcgg tgtaccgctg aaacgaaggc 360
 agccgccaaag tccggactcc gtacaacgat tcctctncat aagcaaatag atgctgattg 420
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<210> 36400
 <211> 379
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E6

<400> 36400

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cagccgcaga tggctcgcg gcgcggcgac ctggcagccg cgctgctgct gctggcgagg 180

gtggccgaga cggcgtcaga ggcgggtgagc tgcggcgagg tgacgtcgac agtggcgccg 240

tgctctgggt acgcgatggg cagcgcgcg tgcctctccg cggcgctgctg cagcgaggatg 300

cgctcgctca acagccgcgc gtcgtcgcg gcggacacgg atgccacctg caactgcctc 360

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<223> Clone ID: LIB3069-047-Q1-K1-E7

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<210> 36402

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E8

<400> 36402

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caaagtctc tgggttacct ctttggaagc ggtgagccgc ccaaaccagc agtggcacca 180

gctgtaagtg ctccacctgc tgctgcaggt gctccacctg ctgagaaacc acctgctgca 240

aagcctgatg gcaccagtca gattgctgct ggggttacca ggcaaacc aa taactaccac 300

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gctgcttctg gcggtggc 378

<210> 36403
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E9

<400> 36403

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ccatgtggag ccataggcgc ctaacagagg gagcaaaacc cttgagcatc catcacaagc 180
atagtaacaa gatggtcaag ttctgaagc ctaacaaggc agctatcgta ctgtacggcc 240
gctacgcccg gcgcaaagcg gttatcctaa ggaccttcca ccatggaacc agggagcgcc 300
cctacggaca ctgccttacc gccggaataa agaagtacc aagcaaggtc atcatgaagg 360
actccgctaa gaataccgcc aagaaatcta gggttaaggc cttcgtgaag ctctgaact 420
accagcacct catgcccacg cgctacacgc tcgac 455

<210> 36404
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-F10

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tggtgaaagt ggtaaatact aatccatttg tttcttagcc ataggtttat ggaaatttgc 180
aagatgctgc agaaaacact catttctgct tccagtctag taggatgggt gccccaaaca 240
agggtcaagg ggagtggttt tcagatatgt tgtacaatgc atgatgtata tattacgcaa 300
tgtttagca caatggacat ttgccctcgt aattatagtc aaccttaaat gagatatgca 360
cgcggtcatc ttttgcattg ccacaagtgg catgaagtaa aca 403

<210> 36405
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-047-Q1-K1-F11

 <400> 36405

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 atttgatata gcttgcaaga tatactctga aatgattggc aatgttatga ctgatgcgag 180
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 atagaagcaa acccttaaga atgtcacaaa ctacattact gatatcatct gcaagcgtgc 360
 agatcttggg tacaactatg gggttatcct tataccagaa ggcctgattg atttcatacc 420
 agaggttcaa aaactcatcg cggaattg 448

<210> 36406
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-047-Q1-K1-D6

 <400> 36406

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 ggagcatgga ggagtttatt tccagcgtca aagcaaccgt ggcgtcttga ttgcgtcgtg 180
 gggctcctga tttgcacaag tttgcgtgat tgcgtccctt actcctctac cctacctttc 240
 actgatgggg agtccggaat tgtgacgtag ctacgcgctg gctgggttgca gcgtaacca 300
 aaacagtttt cacaacgctc agttgctggg aggtcggtag catgtactat cacgtaccta 360
 cgccatcaag aatagtgcgt catctggcat cttgtgatgt catcttgtaa tgaaataaaa 420
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<210> 36407

<211> 451
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 36407

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tataatcctc gctggtgctg agtatggaag cggcagttct cgtgattggg ctgctaaggg 180
tccgatgctc ctgggagtta aagctgtaat tgccaagagc tttgagcgta tccacagaag 240
caacttggtg gggatgggaa tcattcctct gtgcttcaaa gctggtgagg atgctgattc 300
gcttggcctc actggacatg agcggtagag catcgatctc cctaccaacc tcagtgaagt 360
ccgtcccggc caggatgtga ctgttactac cgacaatggg aaatctttca cttgcatcgn 420
tcgctatgac actgangtgg agctggcgta c 451
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<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B9

<400> 36408

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tcctggaaat cttgcagtag ccactgtaaa tgggaaggag tcctcaaata aggatgtgag 180
agggtttcct aacccccaaa gcttagaaat ctacctgctc catatgttcc atgaaattct 240
taggaaactc aggagaaaat ctcgatcatg ggttcgctac cagagttctg ctcaagctgc 300
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taacaaagta catttgagac tggaa 385
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C1

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<210> 36410

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C10

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catgagacaa cccatgcata atatatgcc tctctgcaaa tacactctct ctatgggtccc 180
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aaaacctatc ccaaagacat atttgttttc aatatatatg gcaccgctct ctataatatt 420
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<210> 36411

<211> 238

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C11

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ctctctgcct ccttttcttt tcttttggtg tctcaggggg gtgggcaatg ttccttcctt 180
ctcagatcga tcaccaacaa agtgtttaga ttctaatacca aaacagtaga atggtctt 238

<210> 36412
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C12

<400> 36412

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gaacatgctc gtgctgaaac tcagaatcat aggttctcat acggagagcc aatgactgca 420
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<210> 36413
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C3

<400> 36413

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<210> 36414

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C7

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 ggttattata ccacatggcg aagctgctac tggagagagc tttctggcgt ggagagaccg 180
 atttgaaact gagttggcct tacagcgtgc ttagtaaacat ttctatgttg ttacatat 240
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<210> 36415

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C8

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<210> 36416
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-047-Q1-K1-D10

 <400> 36416

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<210> 36417
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 36417

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<210> 36418

<211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-D12

<400> 36418

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<210> 36419
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-D2

<400> 36419

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cattcagagt caagcatgag aggggtggga agactagatt tgtctagatc gaggacttg 180
gaatctgaca gatattggag taggccttgt attaattgga gatatgggct taaggccatg 240
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agcttttggg gatagcgtcc acaggagcat taccctggac cggaactggc ctttataact 360
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 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<210> 36421
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-D5

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aggacaaaaa gtgatgagat cttgggtggc acaatgaaca ttggttctcg ggaagagaga 180
gagagagaga gatagacaga gagaaa 206

<210> 36422
<211> 286
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B7

<400> 36422

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atctgctgaa aaacatggat tggatactga cgtacagaaa cagtatacac ctgttatgaa 180

acctaaagcc tactctcaca acttcaagtg taaaggcccc atgtacgcgg tatatgcatg 240
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<210> 36423
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A3

<400> 36423

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caagggctcc acgctcgtaa ccaatggcgt gataacgggc gggctctgacg agtgggcat 180
ctacggcgggt accggggtgt ttgcatggc gaggggcgtc atacggagaa ggtatctcgt 240
cgacagggcc cgtgggaaca ctgatgagct caacatggat gtcttctgtc ggccgtttgg 300
ctcacagtca cagctgcaag ataagatgca agtgcaaggg catgggcagg gctctagcgt 360
caccaagatt ggactatggt gtggaccggg agggtcggca caggacatca cggcagagcg 420
gtcacctag catgttcac 439

<210> 36424
<211> 252
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A4

<400> 36424

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ttcatctcgg tcagctcgac gccagggcc tgatattggc actcctgctc aattcattca 120
ccaaactggt ggcatatcat tgaatttgct tataaacgtg gggaaacata acttgccctgg 180
gaagtggtag ctgtcagcct gcgatcgtga actgtaactt atcgaaaatg caacggagtt 240
tgggactcta ct 252

<210> 36425
<211> 254

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A6

<400> 36425

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 tcgcgttatg tgtgtctgtt ctgaagtatt gcgcggttta caacacctga tgttgtaaga 120
 gttgctaatt accctgcatt gctaccggtt tattgagaat aattattgct tgttacgttg 180
 ttgcttcaaa actgcgatcg tgaactgtaa cttatcgaaa atgccgcgca gtttagaaga 240
 ttcacgctta cgta 254

<210> 36426
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A7

<400> 36426

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 acttatgacg atgtgcatgg cttggaggat gcatttatga gagtttctga tacagtcttg 120
 ggaggtgcct atagtagccg tgggtggtcat ggtgggtcgac gtgcacgtgg tcatcatcca 180
 gcccccttc aacaatgcca tatcgtgcac ctgcacaaat tggagatcgt ggtgctgctg 240
 tctagtctgt ggacgacgac actgaggttg atgaattcaa tgaccaagat gctttggggc 300
 atgctgaatg gaggaagtta aaatatggac caccagaaaa ccttgataag cttgagataa 360
 tgtttgagca tatagctatg aatggatcaa cttcctgcac accaggacaa aatattgata 420
 tagaaggacc tgatgttgaa ggagtagaag c 451

<210> 36427
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A8

<400> 36427

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gtcgtcgacg cgatcatcaa cagtggaccc cgtgaggatg ccacccgtat tggttccgct 120
 ggtgttgtga ggaggcaggc cgtggatatc tcacccctga ggaggggtgaa ccaggccatc 180
 tacctgtctca ccaactggtgc cagggagagt gctttccgga acatcaaaac cattgccgag 240
 tgccttgacg atgagctgat caacgctgcc aagggtcat ccaacagtta cgccatcaag 300
 aagaaggacg agattgagcg tgttgccaag gccaacggtt gaactgagct tgtatcctgg 360
 tgcactctgc gctggaaact tttatgtcgc tggcagtcgt atcggttctt ggtttaccaa 420
 tgtttagagt tttttgagac ctatatg 447

<210> 36428

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A9

<400> 36428

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 ccttctgtat ccagatgcat agtggtgagg aaacacagag tttttctgtg tctatggaga 120
 caaaggctga tatcaaaagt gattttgttt tctttcagtt tgctgtccat tattccaata 180
 tatatcaaac agaaatcact cgggtgatca ctatgaggct gcagactgat gatggtttgt 240
 ctgcatactt ggcaagtgtg caggaggatg ttgcggcagt tatcattggt aaaagaactg 300
 tattgcgtgc caggactgcc tctgatgcta ttgatatgag gctctcaatt gatgaaagag 360
 taaaggacat agctctcaaa tttggtagtc aggctcccaa atcaaagctt taccgcttcc 420
 caaaagaact agcatcac 438

<210> 36429

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B1

<400> 36429

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 attgatgacg acatggcccc aatggctcgt tctggaatca ttggtaactg gcacaacatt 120

tttgaataag ctgattcaca gaattccatg ctgacactat ttaagtcaag cgtatcggca 180
aacctacagc gcagaatcac accgcgtaga atggaatgac gacgaatagg gactaacgaa 240
tagaattgtc taagcacgta tgcttaaaag gatacaactg aatggatctg agcgcttcaa 300
ttgattgat 309

<210> 36430
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B10

<400> 36430

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tggtgaagcg caacatcgtc atgcccacg ggcacttcaa gaagcactgg cagaactatg 120
tcaagacatg gctcaaccag cccgcccgc agcagaggcg ccgcatcgct cgtcaaaaga 180
aggctgtgaa gatattcccc cgcccgactg ctggctcctc acgcccgatt gttcaatgcc 240
agactttaaa gtacaacatg aagtcaaggg ctgggagagg ctttaccctt gaggagctga 300
aagctggtgg catgcccacg aagcttgatc caaccattgg tatatctgat gatcacgcgc 360
gtaagaacaa atcccttgag ggactgcatg ccaatgtgca gaggcttaag acatacaatg 420
ccaagctggt tatctttcca aagcgtgcgc gc 452

<210> 36431
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B11

<400> 36431

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agaggcttga ccgagcagca gcagcagcag cagcgatggc gcctctgaag ctgtacggga 120
tgccgctgtg ccccaacgtg gtgcgcgtgg ccaccgtgct caacgagaag ggctcgcact 180
tcgagatcgt ccccgttgac ctcaccaccg gcgcccacaa gcagtccgac ttgctgacct 240
tcaacccttt cggacagata cccgctctcg tccacggaga cgaactctc ttctagtgcc 300

gtgcgatcaa ccggtacatc tccagcaagc acgcgtctga gggcac

346

<210> 36432

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B12

<400> 36432

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ggtaacctcg aagatgatgc tggaggggtc aaatcggagg atccattcag tgcaccggca 120
ttcgggcttg gttgttgctg gtttggcagc agatggcaga caaattgttt caagggccaa 180
atcagaagct gccagttatg aaaaggctta tggagaaccc attcctgtga aggatttggc 240
agatcgcgta gcaagttatg ttcattcttg cacgctgtac tggcggctta caccttttgg 300
ttgctgcggt attcctggag gttatgatat ggatggacca cagctttaca tgatagagtc 360
ctcaagagct tcctataaat acttaggtgc tgcatttggg aaaggaat 408

<210> 36433

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B2

<400> 36433

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gcagacgaca tggactgctt gatcgactgt ggattcattg ttgaggggga caacattgta 120
ggcgatggcg tatgacggaa ttccatgcgg ataccattaa agtcaagacg ttcggcaagc 180
gtacggcgca gaatcgact gcggacaatg gaatgacgac gaataggac taacgaatgg 240
aatggtctaa gcacgtgtgc tgaaaaggat actgctggac ggatctgtaa gcatcgattg 300
attgatgata tgcataactt gaaatggatg accaaggcat aggcgaacta agtttgtggc 360
aaagcacatg ctgctgcatg aatctacagt aaccgaagca gacgaatc 408

<210> 36434

<211> 377

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B3

<400> 36434

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 gggagcgctt ggggtgtccat ccttgtgaca agaggaggag catcacagag taccgtgctc 120
 tcttccctgc cattgatttt tcgctgatag agagtgcga agatgttctc tgggtaccag 180
 atgtcagaga aacctttgag tcactcgcag aaaggggtat gaagttcatt gactggctat 240
 ggacaagaga agagagagag atagccatcg tcacccatag cggtttatta agccatacct 300
 tgcgcatgta cagcaaaaag tgccatccaa caagtacaca agaagtgagc aagtactttg 360
 caaactgcga gctccgg 377

<210> 36435
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B4

<400> 36435

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 aaggctaagc cggcaaaggc cgtcgctgcc aagaccaccg tccccaagcc ggccaaggcc 120
 gtcgtcgtca agtcaaagaa tgcagcggct gccaagccaa agaaggccgc tgctgctggg 180
 accaagcgca aagtgccga gaagaaggc gtggcgaagc cgaagaagtc ccccgccgtc 240
 aaggccaagg ccaagccgaa gaccgtgaag tcccctgcct ccaagaaggc acggaaagcc 300
 tccgcatgag atgggttgct ctaggtctaa gctctgattg tggttggtgt cagctaggta 360
 ctgtacaaac taagtgtgtg cccaaagtgt ctcatgcagc gtgttatgtg cttagcaagt 420
 tctatctatc agagt 435

<210> 36436
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B5

<400> 36436

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ctttttcctt gccagtcaat ataattgtga atttgaggct ctgagcatgt gctagaatgg 120
gcatccataa tagtaaatat aagaaacagt ttttagtact aatttattca gtattatcca 180
aagaagaatt tagtggaact gttttgagtg tgttgatatag ttatgctaatt tctctcatct 240
atttgcggct cactacaacg atgtttacag tacttcattt ctgaacttgg ttttcaatgg 300
aattgcctag catctgcatt gtaatttttc atgctccggc catctcagat tgtgaatact 360
tatgttttct gtaataatca tgggtcattt tgac 394

<210> 36437

<211> 378

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A2

<400> 36437

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gagcgcaaga tgttcgtgtg tgggcaccac ggacaccacg gccagaacct gacggcgcac 120
gggggcgtgc accaaaccac cttgaagatc ttctgcaagg ccgacaagggt gtactgcctc 180
acaggacgct actgcaacgt ggtgctggcc cccgccaaacc cgcgcgacga gcaccagcac 240
tggtacaagg acatgcgctt cagcaccat gtcaaggacg aggagggcaa ccctgcgttc 300
gacctggtca acaaggccac tgggctcgtc atcaagcact ccctcgggtca gtccacctc 360
gtgaagctgg tgccgttc 378

<210> 36438

<211> 178

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-F12

<400> 36438

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aaattttaat tggggaagct aatacaata accaatacaa caacaaatac tataatcaac 120

tcatgtgaca tctaaaatac tatcttcttc ccataatctt tttttatcaa actttata 178

<210> 36439

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-F3

<400> 36439

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tcgttccgaa accccgcacc ttccccattt catttcccc gcagagtagt agttttttac 120

tgggaatttgt accggaacca gggcttaatg gatgctgttt gcttgtagt tcagcttcac 180

caattttctca acagtgtgtt tgttcttctc caggacagta gaaaggaaag gagaaaagct 240

tgttggtgtc gtgtgtgagc tgcagacccc gagaggatgg atcagtatga ggtgctggag 300

cagattggga aaggagcatt tggttctgca ctcttggtga ggcacaaggc cgagaagaag 360

aagtatgtgc tcaagaagat a 381

<210> 36440

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-F4

<400> 36440

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gcacttttagc ttcataccag cacctgtggt agctgctoca gctgcagtct ctgccaaaga 180

ggacttcttt cctgttttgg aagcccccca gaccagcaag cgcaccaagt caaaagcatc 240

tgatatctgt gccagaccg agaacaactc tgttatagta 280

<210> 36441

<211> 321

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-F5

<400> 36441

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ccgccgctcc accgctgccc acggcgcggc ccgccggggc ctccccgctc cctcctgccg 120
cccgcgcggc gtttcaagcc cctagacatg aagaagggac atagtaggaa ctcaccgaag 180
accttcagct catctggaca ctcggggggtt aaactaaaca acgaaggtct cgtcaacgac 240
aggctcctaa taaattgtgg agaggatcaa gattgtgtgc tcggtggcat agttgccctg 300
ggaaagtttg atgctctcca c 321

<210> 36442

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-F6

<400> 36442

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cgcggtggcc ttctcggaag agctccgccg ccacttcgag cgcttgccgc tgagctacgc 120
cgtcgatgtg aacgtcgaca aggcggagga cgtgctgctg caccggagga ttctcaacga 180
gtgcgctcac cctgaaaatc gccccatctt ccatgtgggc tttctgaact gcattccgcc 240
ctcggtggat ccacagtata aactcaatt catctctacg agcgaaaaca gtaattgtgg 300
gggttctcag gattccactt tgagaaaatt tgagccatgc gaagggatcg aggacctcag 360
tttaactgga caaaa 375

<210> 36443

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-G1

<400> 36443

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tgactgtgtc atgctcagcg gagagagtgc cgctggagcc taccgccagg tggctgtgaa 120

gatcatggct cgtatttgca tcgaggcaga atcttccctg gaccacgagg cagttttcaa 180
ggccatgata aggtccgcgc ctcttccaat gagccctctg gagtcccttg catcatctgc 240
tgtgaggact ggcaacaagg ccaaggctgc actgattgtc gtcttgactc gcggtggcac 300
cacggccaaa ctggtcgcca agtaccgccc cagggtcccc atcctctccg ttgtcgtacc 360
cgtgctta 368

<210> 36444

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-G10

<400> 36444

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ccggagactg tggaggtgac gctgcgcgcc gtcggcccgt cccgtccaac caccctccgc 120
ctccctccgc ttctctcggg cgccgagctg cgcggctgca tcgcgcgcga acgccgtcta 180
gcaggcacgg aagaagttcg actccgcttg atcctgcggg ggaagacgct cccgcaccaa 240
gacgacagcc atgtcactct ccgcgatggg gatactctta tagtcgccgt ggcacctaag 300
cctcctgtta atcatcttct tgatgatgac gttgaggacg aagaagagga tgaact 356

<210> 36445

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-G11

<400> 36445

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ggacaggagc tcttccgcaa gggcctgtta agtgaacctg ttcttgcttt agaggctgaa 120
gttttgaaaga atcctgataa tgcttaaggt tggagggtgt taggcataac acatgcagaa 180
aatgatgatg accaacaggc cattgcatca atgatgcttg cgttggaagc taatccgaca 240
aaccttgaag atcttcttgc tcttggtgtt agtcacacaa atgaattgta gcacggagaa 300
gcattaaggt atctttatag gttgcttcag aatcatccaa aatatg 346

<210> 36446
<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-G12

<400> 36446

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gaactcgaca aaaagattca gggaggctct tgctacatgg ccattgcggc gcggctgctg 120
cgagcaaccg aggtgagata tcgattacta tctgcttccc atggtttcgg ccagcgagct 180
gcatacacag atgggtgggat agtcgatgtt ggccaaccaa caccacagtc tcatccagag 240
ttattagctg atggagagat cacaccaggc atcaciaaacg aggaatacat ctctagaaga 300
aaaaaacttt tagaggtgct accagagaag agcttggcca ttattgcttc tgctgatcag 360
canatgatga ctgatgtag 379

<210> 36447
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-G5

<400> 36447

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cgccggcgag cctgtggcga ggaccaacag cgatggcggc ggcggcgga gcaaggactc 120
gggcagcttc gagggaaca tctgcctgga cctggcgag gaccccgtag tcaccctatg 180
cggccacctc ttctgctggc cctgcctcta cgagtggctc cacgttcacg cgactctca 240
ggagtgtccc gtctgcaaag ccgtcgtcga ggaggggaaa ctctgtcccc tcta 294

<210> 36448
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-G7

<400> 36448

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agaccattgg ctagctcttt tgttgaggac tcgctttctc caciaagctt ctgcgagctc 120

aggagttagc gcttcccagg cttccagctc ctaaaatgta cttattcacg taccaaggga 180

tttgatctgc cgtaagtatt atgcgagatt tgttccacca tttacgatca actgtatagt 240

tctaaagatc cctcaacca acatgctgcg gatttgaagg gcaatcatca ggaacatgtc 300

cgcatgaaac gtatgcaaga gtgagatgcc aaatcagatg atgacgtttc aaaagggtgaa 360

agacattttt gt 372

<210> 36449

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-G8

<400> 36449

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gacaataagt gatggtgata atcttgagc ttataagctc ccaaagttgg aaaagagggt 120

gaattacatt cagtttgtgc atcgatcatga agatctggac catggaaaca ataacagctt 180

gacatcttgg aaaccgtacc gtgttcctct tcttgacaaa atttcttgca atgaaattgt 240

cacgggtttt gatatccatg agttggtcca taaaatgctt gtgcccgtgc taaagaattc 300

ggactctctg catttggtcg gtcaaagttc tgttttcaca ag 342

<210> 36450

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-H1

<400> 36450

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agattcgtga ggggtctgcac tacaatccct acttccctgg tgggtgccata gccatgccga 120

agatgcttaa tgatggagct gttgagtatg aagatggtag acctgcaact gaagcccaga 180

tgggtaagga tgtcgtatca ttcctttcgt gggcagctga gcctgagatg gaagagagaa 240
agctgatggg agtgaaatgg atctttctac tatcactagc gcttctccaa gctgcctact 300
accgccgcat gaggtgggtca gtcttgaagt cccgaaagct ggtcctggat gtcgtcaact 360
aaggactatc attacccttt tttta 385

<210> 36451
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-H12

<400> 36451

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ggcctcacgc cgcgcgccgc gcgctgccag gtccgtgctg ccgccttccg tccccgccga 120
gctggtgaag ttttcgggtca atggcggtgct tgtcctgacg ttcttatgga tcttgaaggg 180
tcttctcgag gtgggtctgca catttggaag catggtgttt gcaagcatcc ttcttggtcg 240
tggtatatgg tctgggggtga catacatcag agaaaaccgt tacagctata ttcaccggat 300
cgacaacgat gagaaccgat ggagcagagt ccagactggc tgttaatat ttgctttcct 360
tatctatgaa cagacacac 379

<210> 36452
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-H6

<400> 36452

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ctgtgtcggc atgagtagga gacaagtgcc tcgatagtat tttggctaata tgttccagta 120
ctgtattcat gatgtgcaca ctgctctgta ctactggtgt gcatgtgatt gttgtacatt 180
atttgctctt c 191

<210> 36453
<211> 72
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-H9

<400> 36453

aaaaaaaaa aaaaattaaa ttttaatttt ctaaaaaaaaa aaaaaaann ggggggaatg 60

taaaaataa aa 72

<210> 36454

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A10

<400> 36454

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aaatagctaa tgagggtcaaa ggcgtagggtg ctgaatagac attgatgac ttgctgctg 120

ttagacacaa aggctgatat ctacagtcgt ttgaattgat ttcattttgc ttgagcctca 180

ttttaatata tttgaaatgg cgatgctcta ggatgaactc ta 222

<210> 36455

<211> 372

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-F11

<400> 36455

ggagagagat ctcgatccgc acaccttatg cctctcttcc tctcgcccca aggacaacga 60

aaacatcaaa cgagagaacg aaaggaaaca gagcaagagc atcgctctcg aagcaaaacg 120

cgcaccacgc cgtcgccggc cggccacttc gcacgtacgt aagacgcgca cgcaccgggtg 180

catatatggg gtcctgaac cagctgtggg acgacacggg ggccgggccc gccccggact 240

ccggcctcgg caagctccgc aagtacgcct ccttctcccc ctgctcgtcg tcntccgcgg 300

cgggtggcggc tgcngctgct gctggctccg cgccgcctcc gggcgccgtg acgcggagct 360

tgaccatgct gc 372

<210> 36456
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-047-Q1-K1-A11

 <400> 36456

 cgacccacgc gtgagccaag ccttccgccc acgcgtccgc ccacgcttac gaccatatgg 60
 gatggccata tggcctccca gtgagactgc tcaatcgagc gatgcgctca agacattctg 120
 agatacatgg gatacctcaa ggctgtctgg cacgtcagca ctctctattg cgcagttaca 180
 aagatgcagg ttccaaactc agatggcgct atcacttgcc gaccagctgc aaggctgcta 240
 ccaacttaat ggcacgtcag atgccgctaa agtggaatat gctggccaat ggtcgcgtct 300
 catctacata gcactagcca gaaagcetta ttgattc 337

<210> 36457
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-047-Q1-K1-A12

 <400> 36457

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 gaagccgctg cactacaagg gctccacctt ccaccgcgtc atccccgagt tcatgtgcca 120
 gggcgggcgac ttcacccgcg gcaacggcac cgggcgagag tccatctacg gcgagaagtt 180
 ccccgacgag aagtctgtgc gcaagcacac cgccccgggt gtgctctcca tggccaacgc 240
 cgggccaac accaacggct ccagttctt catctgcacc gtcgcgaccc cttgggtcga 300
 cggcaagcac gtcgtcttcg gccaggctgt cgagggcatg gacgtcgtca aggccatcga 360
 gaaggtgggc acccgcaacg gctccacctn caaggtggtc aaggctcgtg actgcggaca 420
 gctctcctag atctctctga tctgggtct 448

<210> 36458
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-D10

<400> 36458

cacaaacgcc ggcgcaaact ctgccccttt cccgacagat cttcaattcc ccggtctcgc 60
caccgatcga ctttcacgcc agtctccgtc tcttccgaaa gcgtcgcgcg cggttggttg 120
agaggagagg aggaagatga gggagtgcac ctccgtccac atcgggcagg ccggcatcca 180
agtcggcaac gcgtgctggg aactttactg cctcgagcac ggcattccagc ctgatggcca 240
agtgcctgga gataagaccg cgggacatca cgatgatgcc ttcagcacct tcttcagcca 300
gactggtgct tggaagcacg tttcccgtgc aatcttcgtt gatctagaac ccactgtgat 360
cgatgaggtg cgactggca cgtaccggca gcttt 395

<210> 36459

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-D12

<400> 36459

cccacgcgtc cgcccacgcg ttcgcccacg cgtncgcca cgcgccgaa gggatatcaag 60
tttgcacacg ggaactaggc accttgcccg gcttctaaca attgatgcc cttgcatttt 120
tgtttgactg cctatttttc ctgcccccg tatgggtggg gcaatgaggc gtagtggtcg 180
ataataaaac ccagcgggaac aaagaaaacg tgtaccagaa actgtttgca aacaccgggtg 240
cctttttttg tggtgaacca ccattagtgt agccgtgaag gaatggtgaa caagctttcc 300
acttgctcat ttccgagcgc ttctctttga ttgtatccat ggtttggtgact catgactgta 360
cgtcttgga gttggcttgg caccaggaa tctaatac 399

<210> 36460

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-D2

<400> 36460

aatgtctgct gctggtagga ctgttgagac tgtgctgtac ttggctggtt tgggcaatgt 60
 caaaacaaag gtgtgattct tgagtccag ctatcactat cagtcctttt tcaaaattgt 120
 gatttccttt ctatcttttc ttctgcagat tatcggatca aggaaccac ttaatgtgat 180
 taaagctctc ttcatagtct tgaatgctgt atgtgccat ttcttgctca aaatctgccc 240
 aattcaatct cctcatcctt gatatttatt tgtttataga tcattctctc taatttatca 300
 atcattttgc ttccagattg aaactcctaa ggatgtccaa cagaagtttg ggcgtactgt 360
 cgtcgagtca tatttattgt gatcatcatg gttgtttgga ggacac 406

<210> 36461
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-046-Q1-K1-D3
 <400> 36461

cgaggtaggg gaggttcggc tgtgaacaag ttccgcatgt cactgggtct acgcggggcg 60
 gccacggtga actgcgcgga caacacgggc gccagaacc tctacatcat ctccgtcaag 120
 ggcatcaagg gccgcctcaa ccgcctaccg tccgcctgtg tcggcgacat ggtcatggcc 180
 accgtaaaga agggaaagcc cgacctcagg aagaaagtga tgcccgccgt catcgctccg 240
 cagcgcaagc cgtggcgtct caaggacggt gtctacatgt acttcgaaga taatgctgga 300
 gtgattgtga atcccaaggg tgagatgaaa ggttctgcaa tctactggacc tatcggcaag 360
 gagtgtgctg 370

<210> 36462
 <211> 223
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-046-Q1-K1-D6
 <400> 36462

gttcgacccc accgccgact tccacaccta ctccatcctc tggaacccca agcacgtcat 60
 cttcatggtg gacgacatgc ccatcaagga cttccgcaac ctggagagca agggggtggc 120
 gttccccaag agccagccga tgcggctcta ctccagcctg tggaacgcgg acgactgggc 180

gacgcatggc gggcgcgctca agacggactg gtcccacgcc ccc 223

<210> 36463

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-D8

<400> 36463

agtgatgatg ataattcaac ccagcccgat gaatattcaa aaatcgaaga gaatggcgat 60

gaggaagaac atatcagtgc ttctgaatca atagacacag ataagaatgc agacaaagaa 120

ttgcttgtgg ctgctagacc caaaaccaag gtcaagaaac ttgcaaaag aatacttcgt 180

caggcccat ctcagtcaat gaaattgaaa gatcttaagg tcgccgttga ggaacactca 240

aatgttgtat tt 252

<210> 36464

<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-E1

<400> 36464

cccacgcgtc cgcgggacgcg ttggcgggtgc tcatcctgtg ccacttcaac agcgattgga 60

ggctaagctc gcagggggag ctctggagtt ggacgctgtt ctttgctggg gtcacggctg 120

ttggatttgg ttcttcttat tatcatctca acccgaatga cgccacccta gtttgggaca 180

gactgccaat gacgattgct ttcacttctg tcatggctat attcattatt gaaagggttg 240

atgatagagc agggggcaaaa tcccttgcac cacttgtgat tgcgggtgcc ttgagcatca 300

tgtattggag acactntgat gatcttcgcc cgtacgcagt agttcagttt gttccatgca 360

ttgctttacc tgtgatggct atagtaattt caccgatgta tacaca 406

<210> 36465

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-E10

<400> 36465

cggacgcgtg ggcgccgccc tcaccgtcgt cgctcgcgt ctccgcccgg aggggagcga 60
gagtaggggc gtgtcggcgg tgaaagcgac tgcgtcagcc atggcggacg aggagcattc 120
ggagaggaga gaggaggcct ccgagcttgc ccccttcgac ccgaccaaga agaagaaaaa 180
gaagaaggtt gtcaccaag aaccttctga tgaagtggac aagcttgcag agaagacaga 240
aacactggca gtcgcagaac ccgctgaact taacttcact ggaatgaaga agaaaaagaa 300
gaagccggtg gatcttgatt caactcttga tgagcttggg gatggggagg acactcaaga 360
tgatcaagct gtagaggaac aagggggaagg cattgtgctg ggaagtgtcc ctacata 417

<210> 36466

<211> 228

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-E11

<400> 36466

tttttttttt ttttttttn ntnganttn ttntttttgt ttttgtaaaa ttttaaatgg 60
tttaagaaaa aaaaaatttt aaattttttt ttttttttnn ngaaaaaaaa gnnnaaaaaa 120
aaaaaaaaatt tttttaaaaa tttttccctt gtaggaggtt gaaattaaaa aaaaagcatg 180
gtggaaaaaa aaaaaaaaaa attttaaaaa tgaccccttc tttctttt 228

<210> 36467

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-E2

<400> 36467

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cactgcactg ctccgcccga ggccggcagt tccagccaag aggagtgcc tccatgcggt 120
tgctgggttg acgacgatga ggaggagggg agctgcangg gtcgtgcgag ctttcttcaa 180
ccctctcggg gatgagcgca tcctccgaga agccatcaag gagccagtag cattcatggg 240

tgggtgtgttt gctggcctct tgaggcttga cctgaatgaa gatcctctca aggaatggat 300
aagtcggaca gtggaggctt ctggaatagc tgaggaaaac agctctgaag aatcaagtga 360
ggcagatcaa aatgatgcac c 381

<210> 36468
<211> 447
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-E3
<400> 36468

ctcaaatttt caaactctag ttttctctta tataaccac gccaacanaa acggggctcg 60
gttaatttac tagtgtgcc cgacaccnac aaaaccaccc aatattaact tccttcattc 120
ttattctatt ttactacca taattactat ttaacctgtt attttcttcc taactttctt 180
taacactttt attgattatc tctttctctt ataaaccaat ctattttcca ttttcaatca 240
ttaatattta ttttttttta tttattaaat ttttatattt ttttttatta attttatttt 300
atttaatat ttttttttcc cttttttatt tattttattt aatttaaatt tttttttatt 360
ttattttatt ctttttttta ttataatat ttaattttat tcttttatta tatttttttt 420
ctatttatat aatttttttt ctttttt 447

<210> 36469
<211> 353
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-046-Q1-K1-E4
<400> 36469

gacgaagcga aagacaaagc ttttgagttg gagttgagct ggatctgtga tgaatcggag 60
cgtcagcatc agaaggggtcc aaatgaactg ttggagcaag ccaaagctgc tgctcaagca 120
gctcttgagg agatggatgc tgactaagaa acaagacgat ttgccagac ttgggtgttt 180
tgggtgctgtt gaaatctcgg atccctttgg ggtgaccac tggacatggc caatttgtca 240
caatttatta ttttgacca tgtcatgtga aactcctttc gttgaagtct ggtatctaga 300

ttgacttgta tcagagctgt ggtttacgca aactggattc tggagtactg gac 353

<210> 36470

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-E5

<400> 36470

gacagatatt tctaatagcc ttttggttac tacactcctg attccttatca aggggtgcacg 60

gctctcaagc tgatctttat catgtgatga tatatatgtt cctgatcctg ctgagactga 120

gaaaatcaac tgtttggggc caaaagaact tcaatatgtg ttacttctgg cttgatcgct 180

gtcaggatgc tcttcccaaa accttttatc tgaaaaactt cataggagag attcagggtca 240

cacttatcgt tctaggacat ctgaaatgga tccagattct gacctgattc gccgagcacg 300

tatgatgatt tcaattcagc gagttttgtg catcaatgat acatccattg agtt 354

<210> 36471

<211> 358

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-E6

<400> 36471

cccacgcgtn cgggccattg ctcttcttga tcccctcacg ctgcgagtgc accacctgga 60

ggagaaaaaa tacagggttt ataatttcaa agcagctctc accagcaagc agctcgtgga 120

gtacattgtg cttgacattg aaacagaatc gcctgaaatt tgcacgatg ggtctcggtg 180

ccagttggct tatgcgcagg ttgcccggat gtcagatttc gggaagaatg acgccatctt 240

tactgtgagg acgcatcttg ggcacatgct gaatcctggc gatcacgccc ttgggtatga 300

tctgtatggt gccaacctga atgatgatga catggacatg gctatgaccc ggtacagc 358

<210> 36472

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-F1

<400> 36472

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cnaagcgagg taggggaggt tcggctggga acaagttccg catgtcactg ggtctaccgg 120
tggcggccac ggtgaactgc gcggacaaca cgggcgccaa gaacctctac atcatctccg 180
tcaagggcat caagggccgc ctcaaccgcc tcccgtccgc ctgtgtcggc gacatgggtca 240
tggccaccgt aaagaaggga aagcccgacc tcaggaagaa agtgatgcc gccgtcatcg 300
tccgccagcg caagccgtgg cgtcgcaagg acggtgtcta catgtacttc gaagataatg 360
ctggagtgat tgtgaatccc aagggtgaga tg 392

<210> 36473

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-F10

<400> 36473

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tacgattgcc aaggagggtg gtgtttttga gttgtctaaa gtgtgttgc aatctgaccc 120
gcctttgccg catgttgtgt gggaatctgc agcatctgta ttgtctagca ttctacagta 180
cagtactgag tttttccttg aggtacctgt tgcagtacta gtgcaattgc tcaggtcagg 240
aactgaaagc actgttgtcg gtgctttgaa tgcccttctt gtattggaga gtgatgactc 300
aacaagtgca gaagcaatgg ctgaaagtgg tgctgtggaa gcattgcttg atctcctgag 360
gagtcacag tgtgaagaaa ct 382

<210> 36474

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-D1

<400> 36474

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caaataaat tgcacctctg gtgcaactcc tgcaactgc tgaatttgac atcaagaaag 120
aagcagcctg ggcaatttca aatgccactt ctggtggcac acatgatcag atcaagtacc 180
ttgttgccca gggttgcatt aagccactct gtgatctgct tgtttgcccg gatcccagaa 240
tcgtaacagt ttgcttggag ggtctcgaga acatcctgaa ggttggcgag gcagagaaaa 300
accttgggtgc aagtgatgtc aatgtctatg cacagatgat tgatgatgct gagggcctgg 360
acaagattga gaacctgcag agccatgaca acaccga 397

<210> 36475
<211> 389
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-A6
<400> 36475

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gaagagcaat ccccatgtct ggcatcatcc acaagatcga ggagaagctc cacatggggg 120
gcgaccacaa gaaggaggat gagcaccaca agaaggccga ggagcaccac aagaaggagg 180
aggggggagca ccacaagaag gacggcgggg agcataaaga aagcatcgtg gagaagatca 240
aggacaagat caccggcgag cacggcgaca agtccggcga ccacaaggaa aagaaagaca 300
agaaaaagaa gaaggagaag aagaagcacg gcgagggcca cgaccacgac cagcagggcg 360
gtcacagtag cagcagcagc gacagcgac 389

<210> 36476
<211> 211
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-046-Q1-K1-A7
<400> 36476

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ctcagcagag atatcttgct caattgctgt tgaaactgct gcagatcggc accctggagt 120
tgagcagtac gctatcaggt cattcgctga tgcattagat gctgttccac tagccttggc 180
tgaaaacaag ggtttgtcgc caattgatac c 211

<210> 36477
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-046-Q1-K1-A8

 <400> 36477

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 ctcttgcggt tagcaagatc tattaggata tgatagaatc ttattgaaat aagatggatc 120
 tattaatatt agaaagacta ttgtctgata agatgggtct attgaaataa gagagaatct 180
 tttaagaata gaaggatcta tatgaaatag atgatctccg ctgttttaggt atcttatgga 240
 ctctatctat gattatatgt atatgcacat gtaattatgg acattactcc acaaccatc 300
 acactcaatt a 311

<210> 36478
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-046-Q1-K1-B1

 <400> 36478

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 ctctccttct cccgatctga tccgaagcgc ggcgtcnacg acgacgacct aagggcacga 120
 tgcattcgac caacctgctg ctggaggagc ccatccggat ggctccatc ctggagccat 180
 ccaagaccag tttcttcccg gcgatgacca agatcgtcgg cacgctcggc cccaagtcgc 240
 gctccgtcga caccatctcc tctgcctca aggccggcat gtccgtcgcg cggttcgatt 300
 tctcgtgggg agacgccgcc taccaccagg agacgctcga gaacctcaag ctcgccatca 360
 agtccaccaa ggagctgtgc gctgttatgc ttgacac 397

<210> 36479
 <211> 340
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-B10

<400> 36479

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gactggtgac ctgcgacatg aactnattga gcttcttgaa aagattgttc ttcagaattc 120
tgctttcagt ggaaatttca atctgcagaa cctgctcatc ttgactgcta tcaaagcaga 180
tccatccaga gtcattgact atgtcaacag acttgataac ttctatgggc ctgctgttgg 240
acaagttgct gttgaatcac aactgtatta agaggctttt gctatattca agaagttcaa 300
cttaaagtgt catgctgtcg attttctctt ggacaacatc 340

<210> 36480
<211> 321
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-B11

<400> 36480

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cagcctttca ngccgccacg gtgcattctg cagctctctc gactncacac tanancgagc 120
gagctgccac agacaaggac acaatgccac ccatacccaa gagaggcgag catctcctgg 180
tcctcctagt tgtcgcatgc gctgccaccg ccgccaccgc cgtcggcacc gtccccctct 240
accgctccgc ggagtcctct cccgccgctc actgctacgg cactctttac ccggagctct 300
tcctgtccac actcgcatat a 321

<210> 36481
<211> 373
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-B12

<400> 36481

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aaaggctcgag gaagacatcc gtcagcagtt agaagaatgg aagcagaagt cagtatcact 120

tgagatgaaa ttggaggaag ttactctatc tgagaagttc aaaagtgact cacttgtttc 180
cacgactgaa gagctgtaca agatccagtc gatattgcaa gatcgagaat cggaaattga 240
agttcttaaa ggaaagacaa ctgccttgga aatcgagggtg acaaggcttt tagcagatgt 300
gactgattca aatgagcatc ttgatgcac acagcaagag gtgtttgggc tgcagacaac 360
aatagatggt ctg 373

<210> 36482

<211> 317

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-B4

<400> 36482

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aaatcgggct ggtctcttgg ttcaatggga ctgggtgtgaa atttgggtgga aggcttggca 120
tgtcatggca actctcattc ngggggctgg tgctgctgta cttctactcg cactatttct 180
ttggcagtgg ggccgcacac atcggagcaa tgttcaccgc gttcctgtcg ggggagagt 240
ccctggggcac cccgtcgctt ttcgtcgcca tgggtctttc attcctctcg aacctcatgg 300
gcgggaccac ccactac 317

<210> 36483

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-B5

<400> 36483

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gcaagggggg tatccatatg gtccaagggt caactccctg acttattttt tctaagac 120
tcaaggattc gaaattgaaa ccatgctttc tcccttgacg atgaaacttc caggggttcg 180
gtgggaaatg caagtacctg gaagagagca agtgccttgg catttgcatc aacacatgca 240
aactgccac tcagactttc ttcaaagatc acatgggtgt tgatttgtac atggagccaa 300

atTTTgaaga ctatagctgc cagttcaact tc

332

<210> 36484

<211> 151

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-B6

<400> 36484

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accagcga cATTgacagt gactactatt agtggcaggc agtggtgat tttgagtttc 120

caataaacac gaataactga tgaatacaat c 151

<210> 36485

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-B8

<400> 36485

gaaaggctga caacaacata tgacgacaca gattccatgc aaggacatt taacactaat 60

gcacagatgc acgtaggaag aaataatcag cacctataa acggatgcaa cggaaccca 120

gcaacgttac ctccgactga actatcagta ctggaagact ccacgtttaa ggctggttcgc 180

ttgtcgctg aagagagaaa ggaaaagatc catagggttca taaagaaact gaacgagaga 240

aatttcctcc aaaa 254

<210> 36486

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-B9

<400> 36486

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aaactaagt atgagatttc aatgctggag aaaacgtct cggggctcca acagtcagta 120

ggattctgcc ataacgatct gcagtatgga aatattatga tatatgaaga gaccagacaa 180

gtcaccttga tagactatga atatgcgagt tttaaccag tcgcattcga cattgctaata 240
 cacttctgtg agatggctgc tgattaccat acatcaacac cacatgtggt ggatttttacg 300
 aaatatcctg aactgggga gc 322

<210> 36487
 <211> 399
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-046-Q1-K1-C1
 <400> 36487

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 gtcgactacg ccaggcctgc cggagaggta aaccttgtag agtggctcaa gaacaagggtg 180
 accaacaggg actacgaggc catcgtggac ccgaagctgc cggagaagcc gtcctccaag 240
 gctctcaaga aggcgctcct ggtcgcgctg aggtgcgtgg atcccgactc gcagaaacgg 300
 cccaagatgg ggcacgtaac ccacatgctc gaagtcgacg acttcccgtg tcgagaggac 360
 cgtcgaactc ttcgccggg caacggcagc cccctggag 399

<210> 36488
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-046-Q1-K1-C10
 <400> 36488

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 gcaagtcacg gtcgaacacc tcancgaaga cagcgaccac agggagccgt acatcaacgt 120
 tgccatccaa tctgtgccgc cttttctcgt ttggcgagat ccaggcggcc accaagaact 180
 tcgaccaagc ctctctcctc ggtaaaggcg gctttggaaa cgtgtacctt ggagagatag 240
 acagtggcac gatggtggcg atcaagcgcg ggaacccgac gtctgagcag ggcgtccacg 300
 agttccagac ggagatcgag atgctgtcga agctccggca ccggcacctc gtgtcgctta 360
 tcgggtactg cgacgacatg aatgagctga ttctagtg 398

<210> 36489
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-046-Q1-K1-C11

 <400> 36489

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 tgtacacgaa agctctaata gaaaagataa gcaacttgta ccagatacgc acaacaacca 120
 atatgtagat gtacaacgtg aaaattctta tgtcagaaca atcagaagta caaatatcaa 180
 ggccttctga ttctggccgt tctagtttca ttacaagaga agtgttcaca taatgtgatt 240
 catagacagc ttctgcaatt tctttaatcc tggcaagttt tcagttagca acagtaagtc 300
 catatttggg tattttttatt tttatgttat tttatttaat tattttttatt tttttttttt 360
 atttacttta tgttttatttt tttttttattt tttttttttt ttt 403

<210> 36490
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-046-Q1-K1-C12

 <400> 36490

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 agtacaccta gggttgggtcc attgatgatg aacctctgtg caaactttgt caaggacttt 120
 gcaatggaag gcttgcagag tcaacataat attttgaaga tctattatgt ggtctagctt 180
 gtttctagga atacagatta agaaccagtg gtagagccct acggcagttg agtcttcttt 240
 ttgttactca cataagtcaa cattttttgt tgtttccatt gaatagttag gactattttc 300
 agttattcaa aatcaaagaa agttgcaagt taattcatat atatgtaata aaagttcttg 360
 gtaattatct ataagcac 378

<210> 36491
 <211> 186
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-046-Q1-K1-C6

<400> 36491

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gctctggatt atactccgtc agggggaggc tctcgagaca catancggct ttgattttcc 120
attcaccctg acaaaatata ttccattcta tggaggagca gaataccatg actatcatca 180
ttatgt 186

<210> 36492
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-A5

<400> 36492

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ctaattggcg ttcggcgggg acgccaagac gatgggcccgc ttccaacggg ccattaacgg 120
tttcttcccc gaccggcacc tttttcaagt ggagtagcgt cttcaggccg tccccagggg 180
caacgccgcc gtgggcgttc gcggcacgga caccgtcgtt ctcggcgtcg agaagaaatc 240
cacaccaag cttcaagact tcaagtccgt gcgcaagatc gcgtgcctag aactcacat 300
aactctggcg tgcgcggggc ttaaggcgga cgcgcgcgtg ctcattaacc gcgcgcgggt 360
cgagt 365

<210> 36493
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-C8

<400> 36493

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agtatctcca acatacatta ttattctgcc ataacaatca tcaactctta aatattatca 120
tatattaata gaccatacaa ttaccttaa tatactataa atatoctaatt tttaacccaa 180

tcttattcca catttcaaat cacttatgtg aaatatcttt ttattaccat acatcaacac 240
cacatttttt tatattttac taaaatatt 269

<210> 36494
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-C9

<400> 36494

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cgacgacaag aagaagatcg aggacgccat cgacgcggcc atcagctggc tggacgcca 120
ccagctcgcc gaggcggacg agttcgatga caagatgaag gagctggaga gcctttgcaa 180
cccatcatc gccaaagtgt accagggcgc ggggtgccgac atgggtggcg ccggcggcat 240
ggacgaggac gctccggctg gaagcgggtg ccttggtccc aagatcgagg aggtggacta 300
agcgga 306

<210> 36495
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H1

<400> 36495

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cctgctgtgc ggcggcgcgt ggctgcagca ggcggcggag gcgcgcccc accacatgga 120
caccgacagc agcatcgaca tggaccgcgg cagcgacgac ttcttctcca tcgtggggta 180
ctcgccggag gacctgacgc agcacgaccg gctcgtcagg ctgttcgagg agtgggtggc 240
caagtaccgc aaggcgtacg gcagcttcga ggagaagctg cgccggttcg aggtgttcaa 300
ggacaacctg caccacatcg acgaggccaa caggaaggag gtcaccagct actggctggg 360
cctcaacgcc ttcgccgacc tcacgcacga cgagttcaag gccacatacc t 411

<210> 36496
<211> 430
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H10

<400> 36496

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gccctgttcc gcccacacgc cggcgtgctc gacgcgggga acggcctcaa gtactacagc 180

ctcctcgacg cgcagctgga cgccgagttc gccgcgggtca gcaggctcgg ggagggttac 240

aacgcctgtc gcgtcgtggt cttcgagacg gtgtggccgt ccaagggcga cgccaacgag 300

gcgggcgctt cagcggccaa cgctcggcgc tacaacggca acctggcccc ccgctgtctc 360

tacggcaacg cctgcaccac gcgccgcccc gacgccgaca tcgacgtgta cctcttcgcg 420

ctcttcaacg 430

<210> 36497

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H11

<400> 36497

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ggttaatggt taatggctag gaactggtgc ttaatcctga aaccgtact gctgtttttc 120

ttgccaaactg tggcatcgtc gtcttgtggc tgcaagctg cagccacctc gttcgtgtat 180

ggcggcagat gagacaattc ataataag tatatagata taaatagtag tattaccggt 240

ttgtttgcat ttacgattta tcgtgaactg atggaacata atgtgtatac agcgaacatt 300

tatctgattc catacatctg ttgtttaac 329

<210> 36498

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H12

<400> 36498

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 gacacactga gaaaacctgg agtgctgcaa tgtagtcca aagagaaggt ccttgatcct 120
 aagaaggcac agaacattgc catcctgctg cgcgcgctga atgtcactcc ggaagaggtc 180
 tccgatgcac tgctagatgg caatactgaa tgtctggggg cggatttggt ggaaaccttg 240
 gtaaagatgg ctctacgaa agaggaagaa ctgaagcttc gaaactttac cggggactca 300
 tcgaagcttg gttccgcaga gcggtttctc aaggcagtgc ttgacatacc tttttctttc 360
 aaaagagttg atgctatgct ctatcgagca aattttgaga gcgaaatcaa ttacctcagg 420
 aaatctttcg aaa 433

<210> 36499
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-045-Q1-K1-H2

 <400> 36499

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 aggtatcgaa cacccaaaga tggcaatggc aaccttcaca tcatccccag ttctctgcag 120
 cttcaggacc atcgaacaga agaaggcccc tctgctgaac aacagcacia aacggccgct 180
 tcacttgggc ttccaagga gcgtgccgac gtcgccgagc ttcagagcga ggctagacct 240
 gcgcgtcgcc gctgtctaca aggtgaagct catcggtccc gaagggcagg agagcgtgct 300
 cgacgtgcca gaggacagct acatcctgga cgcggccgan gaagccggtc tcgacctgcc 360
 ctactcctgc cgcgccggcg cgtgctccac gtgcgccggc aagctcctgg agggctccgt 420
 cg 422

<210> 36500
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-045-Q1-K1-H3

 <400> 36500

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cgctaagtcc cccaagaagg catagagggg cgcctttacc gctgtgatgt tgaatgctcg 120
 tgttcagtag atctttactt ctgtagtgtc gtcgggtgta ttggaactgg ttagtagatc 180
 tgagcattgt ggttgaaacg tgattccctg atttcagaaa tctaatttgc aaataaaaat 240
 gaacatcaac aatgaatata aggagaaact aatcgggtaca tgaaaggaat gatagagtgc 300
 tctacgtgcc aaaagaacat atacatactg gacgcatgcg aaagaagaaa gggtcgtcct 360
 ttttaaat 368

<210> 36501
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-045-Q1-K1-H5
 <400> 36501

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 gttattttacc gggattttta gtcgtcaaac attcttcttg gagaaggatt tcatccgaag 120
 ctatcagact ttggccttgc aaaacttggc ccggttggtg acaagacca tgtttcaaca 180
 cgtgtgatgg gtacatatgg ctactgtgcc ccagaatatg caatgactgg gcagctcaca 240
 gttaaataccg atgtgtatag ctttggagtc gtgttccttg aacttatcac agggcgcaaa 300
 gcaattgaca acaccaagac ccaaggggag caaacctag tggcatgggc tcgtccactg 360
 ttcaaggacc gcaggaaatt ccctaaaatg gctgatccaa tgcttcaggg ccgcttcctt 420
 atgaggggtc tatatca 437

<210> 36502
 <211> 416
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-045-Q1-K1-H7
 <400> 36502

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 tgtgccaaagg aaatgacaaa gctctctggc atctctgaaa tcatccccga gatggagatc 120
 tgcgattttg actttgaacc ctgtggctac tccatgaatg cgatccatgg ctctgcattc 180

tccacaatcc atgtgacgcc cgaggacggt ttcagctatg ccagttatga ggttatgggc 240
 ttggatgcca ctgctctgtc ttatggtgac cttgtcaaga gggtccttcg gtgctttggc 300
 ccctcggagt ttccggttgc cgtgaccatc ttcggcgggc gtggccatgc cgggacatgg 360
 ggaaaggcac ttggtgcaga ggtctatgac tgcaacaaca tgggtggagca ggagct 416

<210> 36503
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-A1

<400> 36503

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 catcttctcc tgctcctgct gcccggtagc ccccgaggg agacgctgct gacctgacga 120
 actgagccca cggacgagaa ggagggggcac accacgcagg agacctggag agagcgcgcg 180
 cgcggatcca cctcgtatac actctcctct tcttctccgt gtccttggct cagatttagt 240
 tgctgcgccc cttcttagga ttgattgctg cttcaccag tgatcgcgtc gtcattcttcg 300
 cgtttgctta atcgcttggg tgctgcatcc gttttttttt tgggtgttggt tgggtggggg 360
 tgccggc 367

<210> 36504
 <211> 292
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-A10

<400> 36504

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 gcttagagat ggtgcaagat ttcctatcaa gtgagctggg cagcgagcat tatcaactga 180
 caaaggtttc ggatcccttt tgtaataaag aaactgatga tccgcatact gagcgcggat 240
 taatgtcctt tgatgttata tatgacagaa tatagaaata gcagatgtta gc 292

<210> 36505
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-046-Q1-K1-A11

 <400> 36505

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 cccgaccatc gacggcggcg tggagtcgtt cccgttcaag gccggcaagt accagatgaa 180
 gaagctgtgc ctggagccga cgtccttcac cgtcaaggcg gagggcatcg ccaagaacgc 240
 cccgcccagag ttccagaaga ccaagctcat gaccgcctc acgtacacgc ttgacgagat 300
 cgagggccccg ctcgaggtcg gtttcgactg cacgctcaag ttcgaggaga aggacggctt 360
 tgacta 366

<210> 36506
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-046-Q1-K1-A12

 <400> 36506

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 ggcttcattc agcagcatcc tttggattgc aacatgatga gacacattaa tttttctaata 180
 gcatcctatg gtccaacaac aatgtgggct cccattcaga caggaaatat aagttccgaa 240
 tcaaccatgc taccagccac acaatctgca gtatattgga atcattatat gaactttgtc 300
 aggaatcctc ttggttcagt tcgaggaaat cttttccag attcgttttc aggtacaaat 360
 actagtacac ctttgcaggg ttcg 384

<210> 36507
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-A2

<400> 36507

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ttgtcaagtt cattaatgag aagtgtggca ccagccggga tccaaagggc cacctgaatc 180
aagaggctgg gcttgtgcca agcttgaatc ctcttgtgaa ggagtttctc aatgctgctg 240
atgacaagcg gaaggaagtc ctctctaaaa tagaagagga tgttgctaag ctgagcggtt 300
ctgcagccaa gcatggaaag atatatgtga cagcttgcaa agagatcata gacaagggtc 360
ttgact 366

<210> 36508

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-A3

<400> 36508

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cgacccgagc cgccgccgcc gctcaccctc cgagcgcctt cctgctcctc ctggtactcc 120
tctgttgccg gtccctcgcg atcggaggag cagccatggc cggccacgtc ctggcgggcg 180
tgaaggagaa ccagcccgcg gccaacagcg ccgagtccga cgggctcggc cgcttcgccc 240
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aggagcangt ggtggccggc acgatgcacc acctcacgct cgaggccgtc gaggccggga 360
ggaagaagct ctacg 375

<210> 36509

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G9

<400> 36509

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 cccacgcttg actaacccca cctgcgcttg gattggtggc cagggagagg cgcgaggcg 180
 acgcgcccag ctacctaccg gttccatact ctgaagtctg aactggcctc agctgttcca 240
 ccacctcgct gttcttggcc cagctgctct gctcttgctg agggatgatg gtccagtgc 300
 cctccaacaa ggctccacac cgacattgag ctac 334

<210> 36510
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-045-Q1-K1-F12
 <400> 36510

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 ccgcgcgcgc ctctgctgc taccacccc ccttcgtcca gcggcaagtg cccgctgaac 180
 gcgctcaagt tcggcgctgtg cgccgatgtg ctcggcctcg tcaaaggcga ggttggcaag 240
 gtgcctgccc agccgtgctg taccctcacc aaaggccttg cggacttcga ggccgccgtc 300
 tgcctctgca cggccatcaa ggccaacgtg ctcggcgtcg tcatcgatgt ccccatcaag 360
 ctacgcgcc tcgtcaacta ctgtggcaag tgcgtgccca agggctactt gtgcgcgtaa 420
 gcagctccgc 430

<210> 36511
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-045-Q1-K1-F3
 <400> 36511

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 aaggactcga gaggaagaga ttacgtatgt tatcggtgcc gctagctggt gtttatgatg 120
 atgttttgtt gtgctagttt actgtgatgc tgggtgtgcc cccacctaac taacaagaga 180
 gctgtcactt gcagactctt gaattttttt tgtctagcg ccatttcttt agcggtatca 240

agtcaattta tataggctta caaattctgc gccttttgta tggccaaagt gtaatatctt 300
 tgttcttgta ttatgaacct ccatgctgca gaatgcaaga gcaaattcta ttgtcgatgg 360
 tgttctcatt gccagcatgt gtacacagta gcggttcatg ttgttttgag ctgttctgtt 420
 ttaataatat ctcaaa 436

<210> 36512
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-045-Q1-K1-F4

<400> 36512

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 gaatttgaac ttcagcaccg cttcggcgac ccccgacaag tacaagagct tcatcgcttc 180
 tgttcgtgct ggcttggtga gcaaagcggg gggcaacagc agcgggatcc ccgtgctggt 240
 cgacgaagac gaccgcgtcg cgctcgagtc gtttctaaac atcactctgg tgaacaaggc 300
 agggcgctcc gtaagcttga agatggatgt ctccagagcc tacttcgtgg cttacgtagc 360
 anggcagcgc tcgtgccttc tcaagagatc aggcgcgacg ttctcgtcgg cgatctgtta 420
 cta 423

<210> 36513
 <211> 380
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-045-Q1-K1-F5

<400> 36513

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 cactgtgctt cataagctca gtggccagct tcacctgcgc tcgatcatct ttgaaagtgt 180
 actggcccgt aacatatgcc catctgtctc atcttatgaa acgagatttg ccacaaggaa 240

ctacatgacc catagccttt ggggcccttc aatgtctgtt agcggcggca tcaatgtccc 300
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 <400> 36514

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<211> 413
<212> DNA
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<400> 36516

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<210> 36517
<211> 436
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-045-Q1-K1-G1
<400> 36517

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436

<210> 36518

<211> 341

<212> DNA

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gtttgctgat gacgcagcat caggccagtg tgctgccctt atcccgtgat ctgccgagag 180

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<210> 36519

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G2

<400> 36519

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gtggtagccg ttggcccagg gccgttgggc gaggacggca gcaggaatcc tctgtcgatc 180

actcctggaa gcaacgtgat gtattccaag tatgcgggaa gtgagttcaa gggcgaggac 240

ggtgagtaca tcgtgctcag ggcgtctgac gtgatggctg gtctttcctg atcaccaaac 300

catacagcgc caggtgtgcg ataggaagtt ttgatgttga ggccgagcct tatcttttat 360

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<210> 36520

<211> 440

<212> DNA

<213> Zea mays

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<400> 36520

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acgatagctg gccgcgtcaa gatcgatggc atgagcgtga agggctttgg tcttgcaaca 240

aagacatcaa acacaaaagt gatacttaat ggcggccaga gggttacatt tgccaggcca 300

gacggctact ttgcattcca caacgtgcca gctggaactc atctgattga ggtctcctca 360

attggttact tcttttcccc agttcgagta gatatcagtg caaggaatcc tggttatatt 420

caagcagcat tgactgaaac 440

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<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G4

<400> 36521

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tcgtagcgac tttagcagtg ctccgcgcaa tgaaggcgcc actagttagc gccacccgct 180

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agaagatc 248

<210> 36522

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G5

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cgaacgcatg acccggaacg agcccaggcc cacaacaaag acgaccaaca caaaagagag 180
acctaaaggc cggcaaaagg gtacaagtgc caagccaa 218

<210> 36523

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G6

<400> 36523

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gcatactaaa tttctgcatc atgatgaatc atatgtgatt tgtttcgatt caactggata 240
gaagaatcag ttgctgattt gatggagtcg cagcttgctt ggcggacata gggctctgtt 300
catggattat ggtttatgtg ccagcgccca gtggtagaca gtgtgattca atgtgcttgc 360
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<210> 36524

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-045-Q1-K1-G8

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ttgagctctt tgatatgggt gctggaagta gtgagcctgc tgctgaggac aatattcaaa 180
tggcatcagc catgacaaat caacaactca ttgatacggg aaggaaccaa atggacaaaa 240
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aaactgctgc gacattaaca cagcaaacag agcaaatgaa gagaattgggt aatgagctag 360

atactgtcca cttctcactg aagaaagcta gccaaactagt gaaggagatt ggtcgccagg 420
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-F11

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gctacggcaa cggcaacaag gtggccgtct gctcctacat ctgcaacagc tactaccaga 240
gccgcagcgg catggggcgc acctgcgact tcaacggcgt cgacaccctc accggcaccg 300
acccagctc cgggacctgc aagttcgctt ccggccccag cagcgtacgc accggcgggc 360
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<210> 36526
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D7

<400> 36526

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tccaggaatg cagagtgttt tgttggtgca gcaggccaag acagtcatca tgcagccttt 240
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cgtcaccaga ataatagtag tctgctacct cctccgacca cctgtgaaag ttttactata 360
cccaccgcaa caaatcttag tggtccgtac catcctgtgg agcagctaaa ccagagtact 420
aatattgtg caagctct 438

<210> 36527
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 <212> DNA
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gtccgtgtga aagacatctc atgtgggcct ggccatggca tcagcatcgg aagccttgga  360
aagaaccgga ccaccgacat ggtggaagac gtgaaggctg acacctgctt gctcaccaac  420
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gcgggtggagc cgccggtggg ccgggacggg aggcaggccg ccgccgggtg ctacagctcag  360
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 <213> Zea mays

 <223> Clone ID: LIB3069-045-Q1-K1-E1

 <400> 36529

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 gcatcgatat cagcatgctt gtcagaagt tgaacatgag ctacgatgag gccgagttgt 180
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 <213> Zea mays

 <223> Clone ID: LIB3069-045-Q1-K1-E10

 <400> 36530

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<211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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<210> 36532
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-045-Q1-K1-E12

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<210> 36533
 <211> 225

<212> DNA
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 aagctactaa aggtaattag ggtttgataa agttaagca accgagtccc aaacttttga 180
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<210> 36536

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-E5

<400> 36536

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<210> 36537

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-E6

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<210> 36538
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 <212> DNA
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<223> Clone ID: LIB3069-045-Q1-K1-E7

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 ggcgcctaaaa taaaggcaac agaaaagcgc acagctcacg taaacagaga ttctttgctg 240
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 cagttggata tttctatgga tctactccag aaaatcacag ttataaaagt tcaaagctga 360
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<223> unsure at all n locations
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<210> 36540
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 <212> DNA
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<223> Clone ID: LIB3069-045-Q1-K1-E9

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<210> 36541

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-F10

<400> 36541

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gcatctttca gacaatcagg agcccaaat ctataacaac attgtcagtg gcgacaagaa 120
tagttgacaa tcatgaagct tacaagaaga ggaacctgaa aaagaaggct agcgaagacc 180
ggtactacac acaaaagaaa ttcgtttctg gagactagtg ctgcacaagg agtgtatatt 240
tctgccagca gtccgaggaa atgcatgtgc caccctgtat tgatgttatt ctacagcaga 300
gactggaaca gataatcagc attagaaagg tcacaatgat agtttgacag gcaagcaatg 360
gtgtggatgg aaccaagcta gggaagagag agagagagag ggagaaaact gtcacattct 420
tctgct 426

<210> 36542

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C12

<400> 36542

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atgaagggat ccctgcgcag ctgtgctccc gtagctgcaa cagtctgttg gatgcaagta 120

tcgtgatgtc acgagtttgg gatttgttgc attccgactg catgggcggt gttgtgaatg 180

ggcatgaaat gccgtgtcct gtttgttgtt gatacttgtg ttagctgct gaagtgttgt 240

tgttgatgca gtactacttg tgtatacttg tggaaagaga gtgcgcatag gcttagaaag 300

tacagtatct tcatactagg taaagggatg tttctgaagc tcatgtgtac cgcgattgca 360

tgttggcacc g 371

<210> 36543

<211> 441

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-045-Q1-K1-C2

<400> 36543

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acttcgagat ccgggtgcag cccaacgaca cgattatggc tgtgaagaag aatattgaag 180

agatacaagg aaaagacagc tatccatggg gccacaact gctgattttc aatggaaagg 240

tcttgaaaga tgaaagtaca ttggaagaga ataaagtcaa tgaggatggg tttctagtgt 300

tcatgcttag taagggtaaa acatctggtt caactggaac ttcattctcc cagcactcaa 360

acactcctgc aacaaggcag gcacctnctc tagaggcccc acaacaagct cctcaacccc 420

cggtggcacc aattacaact t 441

<210> 36544

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C3

<400> 36544

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gtccgcttcc aagatgatgg cggtcgccgc cgctgccctg ctagccctgg tcttgccgc 120
gtcgaccgcg gaggcgagga acatcaagac gacgacgacg acgacggaga agaaggacga 180
tgcggtggtg cagccgcaga ccttcccgcc cttegaccgc ctggcgggcg gcgctcccc 240
ggcgctccggt ggcctccccg gcacctcgtc gggcgggcagc agcattccag cgttcagcat 300
gccgggcagc ggcagcagcc tccccggcgg gtcgttcttg cccggcagca gcggcagcat 360
cggcagcatg cccctcttca gcggcggtc cccggccttc agcggtctcg gcggcatgcc 420
cgggtcccc 430

<210> 36545
<211> 430
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-045-Q1-K1-C5
<400> 36545

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cttcccttat gtacatcacc acacgaaggg aagttccccg acgagaagtt cgtgcgcaag 120
cacaccgccc ccggtgtgct ctccatggcc aacgcgggc ccaacaccaa cggctcccag 180
ttcttcatct gcaccgtcgc gacccttgg ctgcaggca agcacgtcgt cttcgccag 240
gtcgtcgagg gcatggacgt cgtcaaggcc atcgagaagg tgggcacccg caacggctcc 300
acctccaagg tggtaagggt cgctgactgc ggacagctct cctagatctc tctgatctgg 360
tctgttcggc ccgcctccct ccgtcatcgt cgactcccc tgcgctccgtt cctttggatc 420
tgaataagat 430

<210> 36546
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-045-Q1-K1-C6
<400> 36546

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agccagacgt cgcaccttgc ctccaccctc gcattccgat caccgcttc cagctcctct 120

ccgtctcgct gctcctcctc cgctcgcaga gctgagctga tcgatggacc acgagcagcg 180
gcgccagcgg cagcagcaca gtcccagagg caatgctcct gggagcggga ggtgcggctc 240
ctcgctcgagg aagcacaagg gcgggggcaa gaaacccatc aaagtgggtg acatctccaa 300
ccccgtgcgc gtcaagacta gcgccgctgg ttcccgcgcc ctcgctccagg agctcaccgg 360
ccgcgacgct gacccctcca agtacagccc cgaggacctc gccggcgccg ccgtggcggc 420
gggcgaccct gact 434

<210> 36547

<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C7

<400> 36547

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ttccattaag attcagcggg catgtgtcta cctacgtcat cactttaatc ctacacccta 120
ttcgggtatag tcttagtcac tgaatcctac agctggtcag aacttgaggg cataagcata 180
ccctcatggc tcgcaacagc actcgctgaa cgtatgctta aagcatctgg atcagatact 240
ctttgaccag gaaacgcac gtcggcggtc agaaacgcat tagtattgag tacatgtcca 300
acttctacg cgtcaagact agctgcattg gtacacgagc cctagttcag gagcataccg 360
gccgttacga tgacct 376

<210> 36548

<211> 243

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-045-Q1-K1-C8

<400> 36548

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ttctagagtc tagacaaatg gaggcgactt ggggtgcagc tctgagcaaa atctattgga 120
tcattctcaag tcaaaaagaga aacagaacaa gcactacaaa taaatgctgc atgtgctaca 180

acaatatggt ttttttgtcc atgcatgtga aagtgaata attaactatt gtgtggatgg 240
agt 243

<210> 36549
<211> 422
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C9

<400> 36549

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agtcttagtc tcttattagc tctaggctct agctagccgc gccactcctt cgtgtagcca 120
tcagccttct catcgccacc aatggccact gccgaggtcc agaccccgac cgtcgtggcg 180
gccgaggaag cgcccggtgt ggagaccccg ccgccggccg tcgtgcccga ggagtctgcc 240
cccgccgagg ccgaggccga ggccgaggct gctgctcctg ctgatcccga ggagcttccc 300
gcggccgagc agcaggcagc cgccgaggcg gaggccgcgg ctctgctggt tgccgaagag 360
cccgctgcgg ccgaaccggc cgtcgaggcg gaagctgctg ctctgctggt tccccgagag 420
ac 422

<210> 36550
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-D1

<400> 36550

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acctctgctc ggtgacctta gtgcggggcg ccagcatgct gccgtccctg aacctggcgg 120
gcgacgcggt ggcggtggac agggtcagcg tgaggctcgg ccgggtcgcg ccgggggaca 180
tcgtgctgat gatctcccc gaggaccgc gcaagtcggt cgtcaagcgc gtcgtcggga 240
tgcaggggga ctccgtcacc taccttgctg accccggcaa aagcgactcc tncagaaccg 300
tcgtggtacc gcaagatcat gtctgggtgc anggtgacaa tatctttgct tctaacgatt 360
cgaggcaatt tggagctgtg ccttatgggc tgattacagc gaagatcttt 410

<210> 36551
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-045-Q1-K1-D10

 <400> 36551

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 actgcctcaa gagcatgacg ggccaactcg gcaagcggag tcagcatggc caacgccggc 120
 aacatccaca gcaagtgcag cgtatccgtc ggcgtgccca tcagccgcac cgtcgactgc 180
 accaagatca actgatcgat ggaaccatag tggagagagc tcgctccttg gataaccgcg 240
 gacgtggcca ttatcagcat gcagtcagcg tagtaccata gatgtactag ctacatgtgt 300
 gtcatgcac agactggcac ataatacaaa agtagatcat gcacgacta gtgatcactc 360
 accccagtgt cctccgac aatgtcgtcg tcttcgtcgt gtaccttacg tgacacgctg 420
 taacacgtac gc 432

<210> 36552
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-045-Q1-K1-D12

 <400> 36552

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 gttacagcag ttacaacttc tcaaggcccc ccggtagacc tagccactgt tatgtgactg 120
 aaattttacc tttgcagttg ccatcaatat gtcagcctac tctgtcacia acagtcttct 180
 ctattctgtc tattttaaca aatcatgtaa gacatgcctt catgccatct aacatgccta 240
 accatcctca agagttgtat acacaagatg aagaacctag ccttccggtc acacaaaact 300
 cttcaacaac atctttggcg aaactatcta cctgtagcaa cgaaagaaac gaggtacaaa 360
 acttcttgtt ttcttgccat gtactaccta ttaaaaacat cttatttttt tcacgcatac 420
 aacttgataa ag 432

<210> 36553
 <211> 393
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D2

<400> 36553

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 acctcgagct ggaagaccca gacgacgaca ctgatgccga catgagcacc gacgagccac 120
 gcgatgtaga agataacagc gcccgctctag aagccgcttg aagcggaaag catttttagcc 180
 gctggtcacc tagagatgcg gatcggcctg aatcgtctgc cctagctagg cggattttgt 240
 gtaacataat gtagcagcat gtaacttgta tccgccacct cgtcgtcctt cgtctgttcc 300
 agtttagaac aatggcattg tccatgactg ttcaagtcca agtgctcatg ttatatattca 360
 tagctgttgg ttatgacttg ccactttgtc ctg 393

<210> 36554
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D3

<400> 36554

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 taaggacatg aagtgtataa agattgaaga catggaggct ccagtattca aggctttgct 180
 ccatttcatg tactgggatg agttgccgga tcttgaagag cttactggtg taaatacaac 240
 ttgggtatcc accttgatgg ctcaacattt acttgctgct gcagaccgtt atgcattgga 300
 gagattaaag ttgctctgtg aacttaagct gtgtgaagat gttgcaataa acacagtggc 360
 aaatactttg gcactggctg aacagcacca ctgctatcag ctaaaaactg tttgcttaaa 420
 atttgtggct ct 432

<210> 36555
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D4

<400> 36555

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cggcttcggc ttcgtcacct tctccacgga ggacgcgatg cgcagcgcca tcgagggcat 120
gaacggcaag gagctcgacg gccgcaacat caccgttaac gaggcccagt cccgcggcgg 180
ccgtggaggc ggcgggtggc gatacgggtg cgggcgccgt gatggaggcg gctacggcgg 240
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tgcaaaccgc ggcggcggtc acggcaacaa cgacgggaac tggaggaact gagcgggtgg 360
gtccgctgag gcctagttat cttgttcgct tctgctaccg tggtcacctt agtctagagg 420
gggttttatct tcgtc 435

<210> 36556

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D5

<400> 36556

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gcggcgggcg cgagcggacg tcgctggacg gcgtgcggga taagaacgtg atgcagctta 120
agaagcttaa tacggcgcta ttcctgtcc gctacaatga aaaatactac caggacgcca 180
tcgcctccaa ggatttctcc aaactagcat actttagcga tatttgtgtt ggtgcgatag 240
cttgctgcct ggagaagaag gaaggaggag cagtccgagt ttatatcatg accttgggtg 300
tactggcacc gtatcggggc cttgggtattg ggacaaagct gctgaatcat gtgttcgatc 360
tctcagcaaa gcaaaacatc tccgagatat acttgcattg tcagaccaac aacgatgatg 420
caattgcttt ctac 434

<210> 36557

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C11

<400> 36557

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actccaccgc gctctttagt tcggtttccc cgtcagagct tccaacctgt tctactcgg 300

ttagattttg gagctagagt ttccaaagca aaagctttcc ttttttttcc ctccctcccc 360

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tgaacaaaat gcatttt 437

<210> 36558

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A8

<400> 36558

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cagaagttcc agggcccatc cgccattgcc ggcaagctcg gatctcttcc ctgcagggc 180

tgcgagcacc agatcgtcac cgtcgcactgc cagccgtcgg ggcccaggg aggcattgctc 240

gtcttcgtct ccggttccat ccgcaccggc cccgaggagc accccatcaa gttctctcag 300

gcattccatt tgctgccggc agctgggtcc ttcttcgtgc agaatgacat gttccgcctg 360

aactatggct aaaagacagc cgaaaactct tgtgatgaac cgaattttaa aggcttcatg 420

ttgagacgat ga 432

<210> 36559

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A9

<400> 36559

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 ccaacatatc cctagacaaa cctgtcggcg atcgacgggc cagacgacta gagcggaaca 180
 acca 184

<210> 36560
 <211> 433
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-045-Q1-K1-B1
 <400> 36560

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 aaccgcctcct tcagtgtttg ctctgggtga acgaataaac attttgaagg aaatcgacca 120
 gccagcattg atacctcata tagctgaagc gaagtcacag aaatactcgt atgaagttct 180
 tttcagaagc ttgcagaaac ttcttattga tactgccact tcagaatacc tgtttactga 240
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 gatcagaata attcatcagc accagctcat catgtttaag cggcgaatcc catgtttgga 420
 ctcttaccta gac 433

<210> 36561
 <211> 200
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-045-Q1-K1-B10
 <400> 36561

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 tttaaactaa aaaaggggac ggaccatatc aaacaaaaaa aagaaagaaa caaatcaac 120
 caagaccagg acacaaaaaa cagatcaaac aacacaacac accgagaaca ctaaacagac 180
 atcaccgaaa aaggcaacaa 200

<210> 36562
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-045-Q1-K1-B11

 <400> 36562

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 ttttcttcat ctaaatgcgt gcagcctatg ctccatctgt aatgtaataa gaggcaactg 360
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<210> 36563
 <211> 413
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-045-Q1-K1-B12

 <400> 36563

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 gtgaagcttg gtgccgcaga ggagaagaca gttgggtggca ttttgcttcc atctactgcc 180
 cagactaaac cacaaggagg tgaggttgtt gctggttgag caggaaggac catcggggac 240
 aagaaaatag ctgtggatat agagactgga gcacaagtag tataactcaa gtatgctggg 300
 actgangttg aattcaatga ctcanagcat cttattctca aagaagacga tatcattggg 360
 attcttgaga cagatgatgt gaaggacatg aagcctctca aatgaccgtg tct 413

<210> 36564
 <211> 408
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-B2

<400> 36564

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gcactgacac cgggccccac caccattacc acccgacgca cactttattt agcccacgtc 180
actcgcagcc cgcaccggac acgtccacgc gacagtcact gctagctacg taccgggcta 240
cgtacgacac acacacacac acacacagag agacgccagt aaccgtagcg tactgaacag 300
caaaatcccg tgtcatactg ccatgtacgc gcgcgagaga ctaccccgnc acgcgcgcac 360
gccgatcccc tggggcctgg gccctggccg ncgncgctgc gtgcgcac 408

<210> 36565
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B3

<400> 36565

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ccaccagtag gatttgatgt gttgttgttc tttctagtag gtgacgtgac agacaatttg 180
ctgctgggtgt cgttcttgta gtagttgcac tgtgtgttcc tgttatgcta tgggtacgag 240
atgttagggc atgtgttaag ct 262

<210> 36566
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B4

<400> 36566

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ccatttggtt ctggccctcc tggtgaccgc ccaagggggc ctggtcgttt tgaagacaga 120
ccaaggtttg gagacagga tgagtaccgt ggtggctctc gtggtgcttc cggtgacttt 180

ggtggcgata agagtggagc tcctgctgag ttccagccat ctttcaggag ttctggcgcg 240
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 atggagtga cagtgaagct gcccttagtt tggacatgat gtttccctc cctgaggcg 360
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<210> 36567

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B5

<400> 36567

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 cctgtatcgg ttagtccttg ccttcaaggt tcatgttggt ttgttttggg ggtcgagcat 180
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<210> 36568

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B6

<400> 36568

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 ggccctggcg ccggacgggg acgcgccggc gggcgaaggc ctggccctgg cccagttcgc 180
 cgcgggctgc ttctggagcg tggagctggt gtaccagcgc ctaccaggcg tggcgcgcac 240
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cggcacgggc cacgccgagg tgggccgcgt gcactacgac cccaacgcct gcccttacga 360
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<210> 36569
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-045-Q1-K1-B7
 <400> 36569

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 ttccaagaga agggaacaac tggagctatg ataaatgcag acgacagtgg agccttgtgg 180
 aactgatca cttgcggtac aagtacatga atgcgttga ccaagcgatg aatgcgctcg 240
 atgagagatt ttccttcctt tcgtcgtcaa agcagatcgt cagcgacatg aacgatgagg 300
 aaaaggttat tgtctttgaa cgtggagatt tagtttttgt tttcaatttc catccaaga 360
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 actctgatgc tctg 434

<210> 36570
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-045-Q1-K1-B8
 <400> 36570

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 tctgtgaaca ggttaccatt agcctggaac tgcgacaaaa taagaataat cgaaaccaat 180
 aaagcctagc gttttgttgt tctactcggc ctttttcgtg tcttaaactt gtaattttgc 240
 tggaatattg tacagggcat ctgatgcaag gtgcaaagac tgggtgtttg tctgcggttg 300
 ctttcaagga gttgtgtgcc ggttgcttgc acatctttaa ctctgggtct gaagagcaaa 360

tcagaagtat ttatggttta ggaaatatgc acctgctttg ctggagaact ttgtcctgct 420
 atttatttat agacac 436

<210> 36571
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-B9

<400> 36571

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 tggcggccac ggtgaactgc tcggactaca cgggcgcca gaacctctac atcatctccg 180
 acaagggcat caagggccgc ctcaaccgcc ttccgtccgc ctgtgtcggc gacatgggtca 240
 tggccaccgt aaagaaggga aagcccgacc tcaggaagaa tgtgatgcc gacgtcatcg 300
 ttcgccagcg caagccgtgg cgtcgcaagg acggtgtcta catgtacttc gaagataatg 360
 ctggagtgat tgtgaatccc aatggtgaga tgaaaggttc tgcaatcact ggacctatcg 420
 gcatggagtg tgct 434

<210> 36572
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-C1

<400> 36572

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 ttggtgggtgg gcggcagcgg ctacctgggc cagcaccttc tcgcggcgtc ctgcaccgtc 180
 gaccgcctcg acgtcgcttt caccaccac agcccgacc cgacgcagcc gtcctgggag 240
 acgtccccc cgtgcgcgc attccgcgcc gaccttcgct ccggcgacgg cttcgaggcg 300
 atctccggt cttttggcca gccacacgtg gttgtcaact gtgctcgat gtcagtttct 360
 cgggcatgcy aattggatcc acctgctgct atggctacca atgtgccttc ttcgcttggtg 420

aattg

425

<210> 36573
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-C10

<400> 36573

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tgccggcgac ccctatccgc cgaccggtcc gtcccaccac accccaccgc cgctcgcagc 120
tatgtcgccg tcggagccga cgcgggagga gagcgtgtac atggccaagc tggcagagca 180
ggcggagcgg tacgaggaga tggtcgagtt catggagcgc gtcgcgcgct ccgccggcgg 240
cgccggcgga ggggaggagc tctccgtgga ggagcgcaac ctgctgtccg tcgcctacaa 300
gaacgtcatc ggcgcccga gggcctcgtg gcggatcatc tcctncatcg agcagaagga 360
ggagggccgc gggaacgagg cgcacgccgn cttcattcgc gcctaccgct ccaagatcga 420
gaccgagctc 430

<210> 36574
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-A7

<400> 36574

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tgggcatggg cgagctgggc cagctccacg tcggcttcct caaggcgtg ggctgcagg 120
aggaggacgg caaggacgcc acgcggggt tccccaaggc ccccccaac gccgtcccgg 180
gcaagccgct ggctactac gcgctgcgcg aggaggtcca gaagcagctg cagaagcacc 240
cgaacgcaa cgtcgtggtc accggccaca gcctcggcgc cgcgctggcg accatcttcc 300
cggcgtgct ggcgttccac ggngagcggg gcgtcctgga ccggtgctc tccgtgggtca 360
cctaaggga gccgcgcgtg ggcgacaagg tgttcgcggg ctacgtgcgc gccaacgtgc 420

ccgt

424

<210> 36575
<211> 341
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-H11

<400> 36575

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cgcgaaaaac gcatccgctc caaggggagt tgatcgagaa gcgttggtgg acatgggtca 120
gatccagtac tccgagaagt acttcgacga cacctacgag tacaggcacg tcgtcctccc 180
gccagaggtc gccaaagctc tcccaagaa ccggctcctc ttcgagaacg agtggcgcg 240
gatcggagtg cagcagagcc gcgggtgggt gcactacgag atccaccgnc cggagccgca 300
catcatgctg ttccgncgnc cgatcaacta ccagcagcag c 341

<210> 36576
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-H12

<400> 36576

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cgggcggcgg cggaggttc cgtgcggctc ttggcggatt gaacgcccac tcgagctgcg 120
ccggctgctg tttcagccgt ccttagatag accctgcttt cctcccgggc aaatccaagt 180
tgcccaaagt ccgacaccag tgaagtcggt gctgccgta gtgctcctcg gctgcggcgg 240
cgtcggcgcg tacctactcc ggcacatcgt ctctgcccgt accctccacg ccaaccaggg 300
cgtggccatg cgggtggtgg gcgtcgccga tagctcctnc ctgctcgtcg tcgaagatgt 360
ccactccacc ggctagatg acgc 384

<210> 36577
<211> 378

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-044-Q1-K1-H2

 <400> 36577

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 ctctctgctc gcagccatgg cgaagaacta cccgaccgtg agcgccgagt acagcgaggc 120
 tgtcgagaag gccaggcgca agctccgagc cctcatcgcc gagaagagct gcgccccgct 180
 catgctccgt ctgcgctggc actccgcggg gacgttcgac gtgtcgtcga ggaccggcgg 240
 tccattcggc acgatgaagc atcagtcgga attggctcac ggcgctaacg cggggctgga 300
 catcgcggtg cggctgctcg agcccatcaa ggaggagttc ccaatcctgt cttacgccga 360
 tttctaccag ctgcgagg 378

<210> 36578
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-044-Q1-K1-H3

 <400> 36578

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 tgtggaggag atggagactg caggtaatgc ttttatggct gctgcccagt caatgaaggg 120
 ggtgactgac ggcatgagga agaggaagag ctgcggatat gaaggtgcag cagctgtgaa 180
 gtttgtgaag tacaaggttg aagatagctc gctgaaggac tacctgtcag cagctaattg 240
 cataagcagt ggaagtgagg tagagaaccc gcagtctgat gatgagatgg aagaatcaaa 300
 ctgatgcata gaaacgagat caccgcgtaa tgcttacttt ggacagttgc ttttgagagt 360
 tcottggaca gccgcctttt tttggagcca ggaccagtct tgtttcagct gccgcttggt 420
 tatgatgccg tgcagaatct gc 442

<210> 36579
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-044-Q1-K1-H4

<400> 36579

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gttctataag gtggacgaca ccactagcaa ggtgaccgcg ctccgcaagg agtgcccca 120
cacagagtgc ggcgcgggcg tcttcatggc caaccacttc gaccgccact actgcggcaa 180
gtgcggtctc acctatgtct acaaccagaa ggcgtaattg cttgccccga tttgctttat 240
ccgcctaccc tatcgaacat ccagctgtcg gttactcgaa ttgtatctca tgtagatctg 300
tctgagggtg aaacttaaat ggagcagtag tatctgtcat attggtaccc ctgttactga 360
attgatgtga tgctgagttt a 381

<210> 36580

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-H5

<400> 36580

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ctgcgtgtag atggagaggg ttctcaagga tgacgccgtc gaggagaagg gcgagcgcgc 180
cagaatggca tcgtttgttg gggccatgtc aatctcggat ttggcgaaga ccacattggg 240
tccaaaagga atggacaaga tcctgcaatc aactggtaga gggcgtaatg ttactgttac 300
aatgatggg gctaccattt tgaagtcact tcacattgac aatctgctg caaaggctct 360
tgttgacatc tcaaaagttc aagatgatga agttggtgat gggacaactt ctgttggtgt 420
tctagctgga gaacttt 437

<210> 36581

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-H6

<400> 36581

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cgactactgt aagaatcctg gaaaaccatc agaagaattt gctgcgtaca ttaagcagag 120
aggctatgac cttcacgacg tgaaggctta tggacagatg ctgaaggatg ctggttttca 180
taatgtcatc gcggaagatc gcactgagca gttcttgaat gttctacaga gggagctagg 240
tgaagttgaa aagaacaaag acgctttcct ggcagacttc acccaggagg actatgacga 300
cattgtgaat ggctggaacg cgaagctgaa acggagctct 340

<210> 36582
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-H7

<400> 36582

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tcagaagatt tctgtaccgg cttaattgtt aatgtatttt tgggtgtgtgc aacatctccc 180
accagatggg gttaacactt gtagtgtgtg atgctaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaagaacaaa aacacaaaaa aaacaaaaat aaacccaaaa agactatgac 300
aacattgaaa aatggataga acaag 325

<210> 36583
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-H9

<400> 36583

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catactttgt aagaataata agcaagcaga tggttggagt gtacctatca atatgggtac 120
gaagaagcct ccgaaagcac attcagagtc tgaaagtatc aactgtaggg gttggtgcta 180
tggtgtacat tggttaataag ggatcaatat cagtaagcat gtccatatac caaacacact 240
tttgctttat atgttgtcac ctaacctctg gagaaaagga aggagatgaa ctaaaaagga 300
atgctgatgt tcaagaaatc caccgaagga caatatttaa tccagtttcg agagtcaaca 360

tgcctaaaac gatatatgac catgaaagga ttgtatggct aggtgatctc aactatagga 420
 tcaa 424

<210> 36584
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-045-Q1-K1-A1
 <400> 36584

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 ttccggagat ggaaagcgag ttcagctgcg actccaccct tcgcatgaac tccatcgctt 180
 cctgcagctt gccaacggtg gcggcctcct cgacgcatgc gtcaaggcga aggagccctc 240
 gtcgtcgtct ccctacgcag gcgacgtcga ggccatcaag gccaaagatca tctcgacccc 300
 aactactac tcgctgctca ctgcctacct cgagtgcac aaggtggcgg caccaccgga 360
 agtgtctgcg aggtgacgg acatagcgca agaagtggaa gcgcggcagc gc 412

<210> 36585
 <211> 300
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-045-Q1-K1-A10
 <400> 36585

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 ccggcacaca caccgcagat ccaaacacat accctaccac acagacaaaa ccgcgggata 180
 gaagatgacc cccgcccggc acaaccacaa ccccccaaca agacacaccg cgggaccaca 240
 gcagcaacgt gctacaacaa caacaccaac aaccgcgctg aacggcaaca acacaaagac 300

<210> 36586
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A11

<400> 36586

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gagaaaaaaa aaaaaaagaa agacacaaaa aaaaaaaaaa aaaaaaaaaa aagaaaaaaa 120
aaaaaaaaaga aaacacaaaa aaaaaaaaaag gagaccaaaa aaaaggcgaa cgaatggact 180
gaacaaaaaa gccaccagc aacgccatcc tctgccacgc cgaaaacggt atgatcggcg 240
actatacccg gggccgacta ta 262

<210> 36587

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A12

<400> 36587

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acaagcgaga agactcttaa ggaagttgta gtgccaatta caggacctct tatccgcatac 120
cttggtgatac ggtttccatg gcaagttaag tcagcaatcc tatcaaccct gacaatcatc 180
atcatgaaag gtggaattgc acttaagccc ttccttcac aacttcaaac tacattcgtg 240
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cttagtgctc ttagcacacg ggtggatcct ttagttagcg atcttctgtc catgttgcag 360
tcaagagatg aatctgtaaa agaaagtgtg ctttctgcac tcaaaggtgt tatcaaakat 420
gctggcaaaa gtgt 434

<210> 36588

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-045-Q1-K1-A2

<400> 36588

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 agtggggaac ctgaacacag tagaactgac attgatgagg acccaagtga acttactcca 180
 agaacctaca atattaaaag aatcgaggat tggatcaatc agattgatat caatgatatc 240
 gctttggatg ggcaaggaga gaattcagtt tctgcttttag ccaaactctg tgaaccgatg 300
 gctggcggttc ctgctgtgcg gnetgatgct aaaagcccgc ttggtatgga gatagcttac 360
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<210> 36589
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A3

<400> 36589

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 aaaaaaggaa caaaagtaaa caaagaagaa cagacaaaaa taaaagaccc aagagagact 180
 aactaaaata aaatacaata gtaaaaagaa taaaaaatag gatcactgga aaaagatatc 240
 aatgaacata acataagatg ggtaaagaaa gaatacactt tg 282

<210> 36590
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-045-Q1-K1-A4

<400> 36590

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 tcctacactt gctgttggtt cttacagacg tgggcagtgt gatgatgaac ttattaatgt 180
 cactaacaaa aactcattat tcaagctaca agctagatat gtggttgaga gaatggatgg 240
 tgatctgtgg gataaagttc ttcagcctga gaatgaatat agaaggcaac tcattgacca 300
 agtggtttcg actgcgttgc ctgagagcaa gagccctgag caagtgtctg ctgctgntaa 360

ggctttcatg actgctgacc tgcctcatga actgattgag cttcttgaaa aga 413

<210> 36591
<211> 256
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-A6

<400> 36591

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gctacctgac gggcgagttc ccgggcgact accgatggga caacgcggag ctgtcggccg 180
acccagagac gttcggcaag aaccaggagc tggagggtcat ccactaccgc tggggcatgc 240
tgggcgcggtt gggctg 256

<210> 36592
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-F6

<400> 36592

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tttctacaaa ctttgtcaaa gctagagaag tttgacctat gacattgcta aagtgatcta 180
taatttgga tggaggatgt ctttagtttg atctttatct tatgcttgaa taaaatcatg 240
gctagactct tgtagttagt aattcattat attgttctct tatttcaggt ttgttctttc 300
tgcagatcga acctatccgc aacttattcg ctgctctttt ccttgccagc attgggatgc 360
taattaatgt ccatttcttg tggaaccatg tggatatact ccttgcagcg gtaatttttg 420
tgatcacctg 430

<210> 36593
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-F7

<400> 36593

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atatctcttc catctgataa acaaataaaa agaaatcggc atcgttcgct gctattatct 180
gagtccgatg atgatccagc tgatgtaggt actgaaaaac ataacatatt tactgttact 240
gaagttggtt tcttcccaca accttcagag gtgcctccta tgcattgggca agggatttct 300
gatcagttcc attttcccg tgaatcacga gagacatgtg aaattgctga ttctttccaa 360
aatccacctg anagcaacat gtatgggtcc atttcacaag tttgtgatac atttatgtca 420
caggacgtgt catgtgt 437

<210> 36594
<211> 317
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-F8

<400> 36594

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actgcagagg gccaaagggt gaaggttgaa tcctcagcag ttccttcagc cccaactcca 120
gatgttgctg aagcacaggc cccagctgct gaggaggagg acgatgatga tgttgacctt 180
tttggtgagg agaccgaaga tgagaagaag gctgctgaag agcgtgctgc agctgccaag 240
gcttctggca agaagaaaga atctgggaag tcattcagttt tacttgatgt gaagccatgg 300
gacgatgaga ctgacat 317

<210> 36595
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-F9

<400> 36595

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atcatcgtgc agcaggaggt gagcagggcg gtggcggcca acccgggcct cgccgccggc 180
ctgctccgcc tccacttcca cgactgtttc gttgggggct gcgacgcgtc cgtgctcatc 240
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ttcgaggtcg tcgatcgcat caaggcgcgc gtcgagcagg cctgcttcgg cgtcgtctcc 360
tgcgcggaaca tactcgcgtt cgcgccagg gacagcgtcg cactcgtaag tcaactgcttt 420
ttagtgtcag tggacg 436

<210> 36596
<211> 401
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-G1
<400> 36596

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cactggcaga actatgtcaa gacatggttc aaccagcccc cccgcaagca gaggcgccgc 180
atcgctcgtc aaaagaaggc tgtgaagata ttcccccgcc cgactgctgg tcctctacgc 240
cccatgttgc aatgccagac tttaaagtac aacatgaagt caagggtgag gagaggcttt 300
acccttgagg agctgaaggc tgctggcatc ccaaagaagc ttgctccaac cattgggtatt 360
tctgttgatc accgncgcaa gaacaaatcc cttgagggaac t 401

<210> 36597
<211> 257
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-044-Q1-K1-G10
<400> 36597

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tcatgatctc gacttgccta tgcaatgcaa cgtgaaacaa aagacacaca tgcattctcg 120
agcatcaatc aatccacgta cgtacaccct ctccgatccg aaagacaatg aagttgcata 180
gcatagccgc tgagcttagt tgctggggac gaagttggag gcgtatgccc atgcgatgtc 240
gttgactggg tcagcga 257

<210> 36598
<211> 324
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-044-Q1-K1-G11
<400> 36598

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ggcgttgatg aggtcctgtg acaagcgatt ggagttcata taggtgtgga ggctcctgct 120
cagcgacctg cactgctacc tgtcgttgga ccacaagggtg cgcgagtaca acatgttcac 180
cgcgcacaca cagctcatgg tcatcacgat ctgcaccgac acggccgacg ttacactaca 240
ctcacctgca gactcaccgc tccgacatac gtatctcctg tatctgatca ctgacgattc 300
gcctcgaact atcaggattg cgct 324

<210> 36599
<211> 433
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-G12
<400> 36599

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ggttaagttg ctttttcgat tctcagaaaa agactggctc tgcactcgga taattttaaa 120
atggatagtg cacagcagcc cactggggaa ttgaacaatt cgttcgatac tcttatgggt 180
tctggagggtg accagagtcg acagcctcag gatgctggca atgaaacgag cttcacgaat 240
tggaagacc tcccatgga gctgctcctg cgtatcattt cactagttgg agatgacagg 300
atagtcattg tggcctccgg tgtatgcaca ggatggcgtg acaccttggg gtgggggggtt 360
gcaaattctt cactatcatg gtgccaggac cgcataatg actnggtgat atcactggct 420

cacaagttca cga

433

<210> 36600

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G2

<400> 36600

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aggaggtggg ctaaatggtg aagcgcaaca acgtcatccc caacgggcac ttcaagaagc 120
actggcagaa ctatgtcaag acatggttca accagcccgc ccgcaagcag aggcgcccga 180
tcgctcgtca aaagaaggct gtgaagatat tcgcccgcgc gactgctggt cctctacgcc 240
ccattgatca atgccagact ttaaagtaca acatgaagtc aagggtggg agaggcttta 300
cccttgagga gctgaaggct gctggcatcc caaagaagct tgctccaacc attggtatat 360
ctgttgatca ccgccgcaag aacaaattcc ttgagggact g 401

<210> 36601

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G3

<400> 36601

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gtccggattc gtcggtgtcg tcgtgtccga cccctcgtg caggggcagt tcacgcaggt 120
cgagctccga tcgctcaagg ccaagttcgt gtctctgaag agagattccg gccatgtcac 180
cactaagaat ctcccggcga tgatgaagaa gctgaggggg ctcaatgagg tgggtctctgt 240
ggaggagatc gcggccttcc tgtccgagtc gtaccccgac agcgatcagg agattgaatt 300
cgaatccttc ctccgggagt atctgaatc 329

<210> 36602

<211> 195

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G4

<400> 36602

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ctggaacagt agatagtctg agagtggcca tccaggaggc agaagccaat cccgaccatg 120
ttggagacac tgagcggagc acaccgagtc ctgctgacta acggtctcga cttcgatgac 180
accgcgctca cgctc 195

<210> 36603

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G5

<400> 36603

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cagttcatcc gtgaatacac tagcaagggtg gatgatttag tgaaggacag aattgagtca 120
cagaatgaag aaagagtcaa agagaaggag gagaaagatc ttgttgctca gcagaacatg 180
tatgcgcaat tgcttctct tgccttgcct gctccgcaa tgcttggcat ggggtggcct 240
ccacctccga tgggtgggat gggcatgcct ccaatgggtg gaatgggtat gccgccgatg 300
ggccctggtc cgatgccagc attcgggatg ccagcaatgg gaagctactg agatgttttt 360
gcagagagct tagacgatga tttgaatcgt ccctgtgtaa gcgaagggtg aaacttcatt 420
gg 422

<210> 36604

<211> 285

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-044-Q1-K1-G6

<400> 36604

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caagagaacc aaaggaaaca gagcaagagc atcgctctcg aagcaaaacg cgcaccacgc 120

cgtcgccggc cggccacttc gcacgtacgt aggacgcgca cgcaccggtg catatatggg 180
gctcctgaac cagctgtggg acgacacggt ggccggggccg cgcccgact cggcctcgg 240
caagctccgc aagtacgcct ncttctcccc ctcgctcgctc tcgtc 285

<210> 36605
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G7

<400> 36605

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atcttgacat gccatttga gcctccgaag ccaaagacaa agcataaggt tgacattgac 120
actgtcgaga aattccagac actgcgtgag caagagcaga aatactttga tgaaatgggt 180
cagaagtgcaggatgctgg tgcaaccctg gttatttgcc agtgggggttt tgatgatgaa 240
gccaatcatt tattgatgca cagaaatctg ccagcagtta gatgggttgg tgggtgttgaa 300
ttggaattga ttgccattgc tacaggaggg cggattgttc cgagattcca agagttgagt 360
cctgaaaagc ttggaaaggc tggattagtc agagagaaat cattcggaac 410

<210> 36606
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G9

<400> 36606

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ccccgccg cagaggaaga agagagcaga ggaggatggc tcgtacgaag cagaccgccc 120
gcaagtccac gggaggcaag gcccccgca agcagctcgc caccaaggctc cgtccgtctg 180
cccttctcta cccgtttcgg atccgctgtt ctgttctcta gggttccctt ctgagacgcg 240
ccggcggttg tgctgtggtt gcaggcggcg aggaagtcgg cgccgacgac cggcggcgtg 300
aagaagcccc acaggtacag gcccggaacc gtggcgctgc gcgagatccg caagtaccag 360
aagagcacgg agctgctgat ccgcaagctg cccttcacgc gcctggtgcg cgagatcgcg 420

caggacttca agacagacct

440

<210> 36607
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-H1

<400> 36607

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gtgacggtga cgccgctcca ggtgctgcag ggctacgtga aggacacgag ctctcgtcgcc 120
ggctgcaact cggccgcctg caacgtcacg acgatccccg aggcgggtcca ggccggcgagc 180
tcggcgggact ccgtcgtctt gttcatgggg ctggaccagg accaggagag ggaggagggtt 240
gaccgggtgg acctgacgct cccgggacag cagcagacct tcatcgagag cgtcgcgaac 300
gcggcgaaga agccggtgat cctggtgctg ctctgcggtg ggcccgtgga tgtgagcttt 360
gcgaagacca accncaagat tggggccatc ctgtgggctg gctaccccg cg 412

<210> 36608
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-F5

<400> 36608

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gatcattatg atagtggacg gtgcaagaat gaacttgatg attaccatga tcttcagat 120
atatctcttc catctgataa acaaatgaaa agaaatcggc atacgtcgct actattatct 180
cactacgatg atgatccagc tgatgtatgt actgaaaaac atagcatata tactgatact 240
gaacgctgtt tcttcccaca accttcagac gtgccaccta tacatgagcg acgga 295

<210> 36609
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-044-Q1-K1-E1

<400> 36609

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ccggcgctc gcttggtccg ccaaaatcca ctcttgga tttctgagc tgtcggaata 120
tttctctttt tgttttggtt cttctttgac cccttaggtc gctagcattt gtgcgttccg 180
ccgaagctcg ctggtttgat cgcctctagt tgcggaagcg cctcttgatt tggttctaaa 240
atacatcggt ccttggtttt atccttccga aggggggaaa atcatctttt ttggggcctg 300
atttgagtgt gtcacctttg cttccggcaa tggggaacag cagcagcagc aacaggcgtn 360
cgccggggcc a 371

<210> 36610

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E10

<400> 36610

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ctggagctat gataaatgca gacgacagtg ggccttgtg gacactgac aattggggta 120
caagtacatg aatgcctttg accaaaccat gaatgcgtc gatgagagat tttccttcct 180
ttcgtcgtca aagcagatcg tcagcgacat gaacgatgag gaaaagggtta ttggctttga 240
acgtggagat ttagtttttg gtttcaattt ccattccaag aaaacttacg agggctacaa 300
agtgggatgc gatttgctg ggaaatacag agtatccctg gactctgatg ctct 354

<210> 36611

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E11

<400> 36611

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gagaggagag gagaggttgg gtctgggaca ccatggctcc gatgaagctg tacggggcgg 120

tgatgtcgtg gaacgtgacg aggtgcgcaa cggcgctgga ggaggctggc tccgactacg 180
 agatcgtgcc catcaacttc gccaccgccg agcacaagag ccccgagcac ctcgcccgca 240
 acccgtttgg tcaggttcca gctctgcagg atgggtgactt gtacctcttc gaatcacgag 300
 caatctgcaa gtacgtgct cgcaaaaaca agccagagct gttgagggaa ggaaacctcg 360
 aggaggcagc aatggtggat gtttggatcg aggtggatgc taaccagtac accgctgcac 420
 tgaa 424

<210> 36612
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E12

<400> 36612

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 tggacctgta caactagggg acacacctga cacgtcctgt ccaaagacca aaggctgtta 180
 atccaatctc ttggcaccac aactcaccta gaagagcatc actgataatg acttacaact 240
 atctctacaa aaaaaaaca gccaaagcatg cctggacaac catgctagtc caaaatccaa 300
 atgtcagggc aactactcaa agctgcctgt acaaaaccaa aaactaataa ggaaaaagag 360
 tggcatcaaa ctagatggaa agtgccaagc tacagagctg gaatagccta gtgaaacctt 420
 caagaaggta atga 434

<210> 36613
 <211> 435
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-044-Q1-K1-E2

<400> 36613

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 caccaaagct ccgatggccc gactaaaca gacggcgcgc aagtcgacgg gcggcaaggc 120
 gccccgcaag cagctggcga ccaaggcggc gcgcaagtct gcgccggcca ccggcggcgt 180

gaagaagccc caccgcttcc gccccggcac cgctcgctc cgaggagatcc gcaagtacca 240
gaagagcacg gagctgctca tccgcaagtt gcccttcag cgcctcgctcc gtgagatcgc 300
gcaggacttc aagaccgata tccgcttcca gtctctcgcc gtcgcccgcgc tgcaggaggc 360
cgccgaggcc tacctcgtag ggctctntga ggacactaac ctctgcgcca tncacgcca 420
gcgcgtcacc atcat 435

<210> 36614
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E3

<400> 36614

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gttgtcacgt tcaggctctg ttggctttat taagcttttt tcacttgaaa agattgatta 120
cgaaacaaac atgtgattta ttgttaaaaa aagtaaatac atctatcgca atagttaatg 180
gaggtcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataa aaaagataaa aaagtacaaa 240
aaaaaataaa aaaataataa tacaaaagta aaccttaaaa aagaatatat cgtaagatca 300
aacaagaata aaaaaaaggg gctgcccttt taaag 335

<210> 36615
<211> 461
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E4

<400> 36615

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tgaccgtcgg cggcgccccg gcgggcccga tcgtgatgga gctgtacgcc aacgaggtgc 120
ccaagaccgc ggagaacttc cgcgcgctgt gcacggggca gaaggcgctg ggcaagtccg 180
ggaagccgct cactacaag ggctccacct tccaccgct catccccgag ttcattgtgcc 240
agggcgggca cttcaccgc ggcaacggca cggcgggcga gtccatctac ggcgagaagt 300
tccccgacga gaagttcgtg cgcaagcaca ccgtccccg tgtgctctcc atggccaacg 360

ccgggcccac caccaacggc ttccagttct tcatctgcac cgtcgcgacc ccttggtctcg 420
acggcaagca cgtcgtcttc ggccaggctc tgcagggcat g 461

<210> 36616
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E5

<400> 36616

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cgccttcctt ccctgcgt actgctctc ctcacccac tccccgcag gagcggcggc 120
ggcggcggcg aggtcgtacc ccacatcggc gagcggcggc ggcaccgccg gaggcaaagg 180
caagatgttc gggcgcgcgc cgaagaagag tgacaacacc aagtactacg agatcctcgg 240
ggtgcccacg tcggcgctcc aggacgatct caagaaggcc taccgcaagg ctgctatcaa 300
gaaccacccc gacaagggcg gtgaccccgga gaagttcaag gagctcgcac aagcctatga 360
ggttttgagt gatccagaga aacgtgagat ttatgatcag tatggtgaag atg 413

<210> 36617
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-E6

<400> 36617

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cttcaccgag ttcacatct cttcaacct cctcttcgtc gtcaccgccg tcgccaccga 180
caccgcgca gtgggtgaac tcgccgggat cgcggtggga gcgccgtaa cgctgaacat 240
cctcgtcgcc gggccgacga cgggcgggtc catgaaccgc gtgaggacgc tggggccggc 300
cgtggcggcg gngaactacc ggcagctctg gatctacctg ctggccccga cgctgggcgc 360
gttggcgggg gccagcgtgt acacggcggg gaagctcagg gacgagaacg gtgagacgcc 420

gcgcacgcag cgcagctttc gccgctgacg acgcacac 458

<210> 36618
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E7

<400> 36618

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taattgccat cgaagtagtg ctatctcaat ccagcgatca gcaattgtgt actgtcttat 180
gcggggacct gtagtactgc aataggcatt tttgttttaa agttttgcga ggtgaacaaa 240
actgtttctg ttagtttcga gcttgagctc tcaatgttta ctctttacat tg 292

<210> 36619
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E8

<400> 36619

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acaaatgaac tcacatgtac gcctccatac tgcagcagca gcagccgccg ccgccgtctc 120
ggagctcgag ctccatagtc cccggggccc aggcggcggc gccatggacc agctccggcc 180
cgagccggcc gcgggcgcgc ggcacgagat cgagaagacg gcggcgccgg acgtgga 237

<210> 36620
<211> 106
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-E9

<400> 36620

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gccaggtcag aagagagggg gccgggcaca ccaacgcggc gcagaa 106

<210> 36621
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-044-Q1-K1-F10

 <400> 36621

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 cccaccacc acgcccattg cggaccaact caccgacgac cagatcgccg agttcaagga 120
 ggccttcagc ctcttcgaca aggacgggga tggttgcac acgaccaagg agctgggaac 180
 tgtcatgcgt tctctggggc aaaaccctac agaggctgag ctccaggaca tgatcaatga 240
 ggtcgatgcc gacggcaacg gcaccatcga ttttccagag tttctcaacc ttatggctcg 300
 caagatgaag gacaccgact ctgaggaaga gctcaaggag gcctttcgtg tgtttgacaa 360
 ggaccagaac ggcttcatct ctgccgccga gtcgcccat gtcatgacaa atcttgggga 420
 gaagctaact gatg 434

<210> 36622
 <211> 220
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-044-Q1-K1-F11

 <400> 36622

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 gcggctgccg cagctgccgc tgattcggtc attcttcttg ttcttttgta actgtgcgcg 180
 cgcgatcgct cgatccaaag ttgcttgtcc gtcagccctc 220

<210> 36623
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-044-Q1-K1-F12

 <400> 36623

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 ccttagtttc tatcttctcc cttctccaag tgctcgtccc cttgtgccc cctcatgtgg 180
 gtggcttttg ttcccaccca gttctatgac tcattcgtgc cccaagggc gaaggacgaa 240
 ttgtgccagt ccacttgtgt gcacagagcc ctgtggccc aggagagacc acggatggct 300
 ggtcatactt nntagtcaga cctgcnnatt tccatgaaac tgctttgtca aagggttgc 360
 gat 363

<210> 36624
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-044-Q1-K1-F3
 <400> 36624

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 cttacaaata tatctcttcc aatctgatta acgcataaat agaaatgggc catcgttctgc 180
 tgctattatc tgagtccgat gatgatccag ctgatgtagg cactgaaaaa cataacatat 240
 ttactgttac tgaagatggc tctttaacac aaccggcata agtgcctcct atgcatgggc 300
 aaaggatttc tgatcagttc cattgtcccg ttgaatcacg agagacatgt gaaactgctg 360
 aatctttccg aaatccacct gaaagcaaca tg 392

<210> 36625
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-044-Q1-K1-D9
 <400> 36625

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 tcgtccaact cggcggcgat gtctgggcgc ggcaagggcg gcaaggggct gggcaagggc 120

ggcgcgaaac gccaccgtaa ggttctccgc gacaacatcc agggatatcac gaagccggca 180
atccggaggc tggcgaggag gggcggcgtg aagcgtatct ccgggcttat ctacgaggaa 240
acccgcggcg tgetcaagat cttcctcgag aatgtcatcc gcgacgcggt cacctacacc 300
gagcacgctc gccgcaagac cgtcaccgcc atggatgttg tgtacgccct caagcgccag 360
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<210> 36626
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-F4

<400> 36626
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gatggatggt ttcaacgtat gcatctttgc atatgggcaa acaggaaccg ggaaaacttt 120
cacaatggaa ggggttccag aaaatagggg tgtaaattat agggctttgg aagaattggt 180
cagaatctca gagaaaagaa gtgcatctgt tgcatacaca ttttccgtaa gcatcttgga 240
agtttacaat gaaaagatca gggatcttct tgatgagagc aatgatcaat caaaaagggt 300
ggatattaag caaaatgctg atggaacaca agaagttcat ggtttggttg aggctccaat 360
ttataacata gatggtgtgt gggagaaaact gaagtttggc gctcaaaata gatccgntgg 420
ctcaaccatt gctaatgaac tc 442

<210> 36627
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C4

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cctagcgctc cagatcgaga tgatcaaact cgaggcgaag cacagaagta ctactatctt 180
cggactacaa cggactgaag tccggagaaa ctacctgagc ctatgacagt ttccggagagc 240

tctgatgaca taactgaatg agtcgaatct actagagcac aaggaccgaa gtgctagttt 300
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ttgccagaca aggtatcaga tcaacaacc 389

<210> 36628
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<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-044-Q1-K1-C5
<400> 36628

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ggacgacgcc ttcgattctg atctgcggtc ggcgcgaccc agagagaacc ggagatgcag 180
cagggcgacg gcacggaggc gcaggtgacg tgggaggacc agcagaacat caaccgcttc 240
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aatgagaacc ttgatgatgc tgggaatgaa ctcatcttgt ccgatgaaga cgttgtagcg 360
ttccaaattg gggaagtgtt tgctcacatg ccaagggatg acgtccagac taggctggag 420
cagatgaaag 430

<210> 36629
<211> 456
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-044-Q1-K1-C6
<400> 36629

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ccatggtaag tacatggcct gctgcctcat gtaccgtggt gatgtgggtcc ccaaggatgt 120
gaatgctgct gtggccacca tcaagaccaa gcgcaccatc cagtttgtgg actggtgccc 180
aactggcttt aagtgcggca ttaactacca gcctccaagt gtggtgcctg gtggtgacct 240
ggccaaggtg cagcgcgctg tgtgcatgat ctccaactcc accagtgttg tggaggtgtt 300
ctcccgcatc gaccacaagt tcgacctcat gtacgccaag cgtgccttcg tgcactggta 360

tgtcggtgaa ggtatggaag aaggcgagtt ctctgaggcc cgtgaggatc ttgcagcgt 420
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<210> 36630
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 36630

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tcttgatgat gcatggttgt cttcaactcc ttccggtttc atttcatgga aatcagttgg 120
tagataagat cgagcaaact ttctcttgta tgtaatgttg tcatgggaaa aaaaaaagaa 180
aatacagtgt aaaggcacac tggcagacaa gccatagata tgaataggta tgtgtgttgt 240
tgaaggaatg tgctgtgatg cgcattgggg attggtgatg acaagcaggc cgttttgagt 300
ctccatatca cctatgcaga atcagctgta gaaaaaagg tagcaaattg tggaagtcga 360
accaattgtt ttgcaaacat aaaanaagat gaatgtttgt tggcgagttc gttgcgagaa 420
aaa 423

<210> 36631
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C9

<400> 36631

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aaccgaaatt aagaatgaat gcgaacgcaa aaatattaaa aaagggaacc aaaatgcaaa 180
taagatgacc gacgactaac aacatgggaa ctgggaaaac actagggata cccaactaaa 240
aagggttgaa aaagaaaaac ttttag 266

<210> 36632

<211> 365
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-044-Q1-K1-D1

<400> 36632

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gcatcgatgg cgcccaaggc cgagaagaaa cccgcggcga agaagccggc ggaggaggag 120
cccgcggccg agaaggcgcc cgccgggaag aagccgaagg cggagaagcg ggtccccgct 180
ggcaagtccg ctgccaaagga aggcggcgag ggcaagaggg gcaagaagaa gggcaagaag 240
agcgtggaga cctacaagat ctacatcttc aagtgctga agcaggtgca cccggacatt 300
ggcatctnct ncaaggccat gtccatcatg aactccttca ttaacgatat cttcgagaag 360
ctcgc 365
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<210> 36633
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 36633

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ttgagagctc gggcgccaga tctgaaacct cttgtgttgt gcctttggta gttcggtgta 180
gcattgagct agtagagggtg ctgttccagt tccaggatga gcaaggagga tgtcctcaag 240
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aagacctnc acaagatcga cgggtgtctac cagagcagca tcgacgcgga acagggcaag 360
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<210> 36634
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-D11

<400> 36634

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cagtgccacg tcgcgcacat cccggccgta ctgcgcgcgc cgtgggctgc aggcgtcgac 180
cgcatcattg tcaccggagg ctccctgaaa gagtccagag aggcattgca gatcgccgag 240
accgacggga gactgttctg cactgtggga gtgcacccaa cgagatgcgg ggagttcgag 300
gagagtggag accccgaggg tcattttcag gactgctgg ctctagcgaa ggaaggttta 360
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<210> 36635

<211> 363

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 36635

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tcactttctc gccctctcgt gctcgtgctc ctgategcct cctgcgcagc gcagcagtca 120
ccgcgcggcg agcccccgcc aacgccgaac gcgccaccgg ccaactcgcc gcccaggcg 180
cctacagccg gaaaccgggc gccggcgccc caggcgccgg cggcaggcaa cccggcacct 240
gcgcccaccg gactccacc tacggccccg accactccga ccccgcccc gaccacacct 300
nccccggctt ccacaacgcc gacccggcg cgcacaacta cacctacgac cccaccacg 360
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<210> 36636

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-D2

<400> 36636

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gggagtcctt ttcagaactt ctcacgagat agttggaagg tctgttgctc tatgcgtctc 120
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 tgaggatgac gtctatgaat acctgggggt tgaaaacgct gtaaacaagt tcatatccta 240
 tggctctact ggttcagaac aagtgaaaaa gcagcttgag gattggcgca tccagctcgg 300
 ggtgagctca taagggttgg catgggtccaa gaaataagct cgcaaattag tgcttgcat 360
 ttttgaaggt gtatgttgac gtcgtgaact tttactgagc gtttgatcat acatgttcga 420
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<210> 36637
 <211> 382
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-044-Q1-K1-D3
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 gctacgtgtg tttcatgctg atgaaactcc actggaagta ccgccc aaag aagttgtaaa 180
 gctaggggct caggagctgg ttaattatat gaagaatatg gttgctgcaa gggaagtga 240
 ccagaatcaa acagataaga ggagcttctg gacctggctc cgctcactgt ttggttgta 300
 caaaaagaat caaggattgg gaccagttcc agcctagctg aaccatatcg tccgcatgta 360
 ttgtcatgaa ttattcaggt tt 382

<210> 36638
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-044-Q1-K1-D4
 <400> 36638

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atgggaaggt atgaatccca tgcaggttgt tggagctggt ggttttcagc aacgacggct 180
 tgatattcct ggtggtgtgg atcctgctgt agcagagata ataaggagat gctggcagac 240
 tgatccaagg atgcggccat cattttcaga gatcatggct actttgagac cattgttaaa 300
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 tattggtcag tatcagctga agacacaggc catagagaga ctgc 404

<210> 36639
 <211> 367
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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 acatgatgct tcccatgggt tgcacgcgaa gcgaaaaaag caccttgatg gtgccggcga 180
 tgatgatcat gcagatgcct atagtaacaa aatgatggag gatcactacc gtgcgatgct 240
 cagtgaacat gtccagaagt accgaaggct aaagttaaag gaagggtgctt ttatttccga 300
 tcctttctcag gtggcaatcc cccanattaa acacaaaaac ggtgggtaaa aagttatgaa 360
 gcacatt 367

<210> 36640
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-D7

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 gccttactgc tcttgggtgt catcgccatg gaccttgggtc tgtctgttta gggctgtcgc 180
 ggctgcagga gccgatgatc gtccgatgca gccgatgctg ctagcgtacg catatagtga 240
 ggactgaacg gctcgtctggg caccgcatct gatgagtga tgctacagcg attgacgtag 300

acgcactatc catcatgcag ggcgccatgc ttcggaacct cactgacaag ctattctaga 360
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aacattag 428

<210> 36641
<211> 429
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 36641

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cacagcgggtg cgccgcccgt cgggcatcgc cgcggcagca tacgggaacg cgcgcgaggg 180
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gcacccagac ccgcgctttc tacgctatgc aagccccgtt ccgtcccacg ccgaccacac 360
ggccatnctt gcagcgccgg agacctcggc caccacgcta gccaacggcc tgcgcgtggc 420
cactgagtc 429

<210> 36642
<211> 405
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-044-Q1-K1-C3
<400> 36642

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actagagtta tgggtacctt tgggtatgtg gcaccagagt atgcaaatac tggactcttg 180
aacgaaaaga gtgacattta cagctttgga gtcgttctcc ttgaagcaat taccggaagg 240
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atggttgcca gcaggcggtc agaagaagta gtggatccca ccatagagac acgaccttcg 360
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<210> 36643
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B1

<400> 36643

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cgctgctcaa ctgcggggcg gcgccggctg ccacggcgat cgtcgagcac ctggccgtgg 180
ttacgccgat gttatcaccg gcagtggctg cgcctaggca agggccggctg ctgcgccgcg 240
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tggcgccga 309

<210> 36644
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B10

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atggtgggcg gaggagtga gccgatcagc ggcgctagag actgcagaca cttggagact 180
cgcagataga cgctgaagct tgagcacaag ctgtactact gcaatctgaa cgataactcc 240
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ctcggcaact 310

<210> 36645
<211> 395
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B11

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tacagctctg caacaacaaa gattaatgtg gctgtcgaca gactgccaca gttccagtgt 180
tgcaacacca atcttgaagg tggccagag cacatgggca caatacacat tgggtccgaa 240
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cctgttatag aaatgacaat tccttctgtt ttggataaga ccatctctcc gccagaaagc 360
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<210> 36646

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-044-Q1-K1-B12

<400> 36646

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aatcctactc ttatgatttc agttcctgca attttggatc gtatcagaga tgcagtattt 240
aagaaagttg gtgagaaggg tggcctgaca aaaaagctgt ttgattnttc atataagcga 300
aatattgcag caattgaagg gagttggttt ggatcttggg caccagagag gatgttatgg 360
gatcacattt attataaacc aatacnngca atg 393

<210> 36647

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B2

<400> 36647

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ctacatcgga gcgcgaccac accgacgcgc aacagcagggc gcacaccaga cagacgagaa 180
aacagtcgag caccacaaag aagaaacgcc gcagaaaaca ccaacagagg cgacgccaag 240
gcacggaccg ggacaggacc aagccaagcc caaaggagac caaaa 285

<210> 36648
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B3

<400> 36648

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accgtgagaa gatgaccag atcatgttcg agaccttcaa ccccccgct atgtacgtcg 180
ccatccaggc cgtcctgtct ctgtatgcca gtggtcgtac cacaggtatc gtgctcgact 240
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aacgc 365

<210> 36649
<211> 169
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B4

<400> 36649

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acgtcgttat taccacttat cgtcgtattg gaaaaaatgt ctttttctt 169

<210> 36650
<211> 418
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-B5

<400> 36650

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tttcgacggc ctagccgact ccatgactat gaggagcagc aaatcagaaa cccttcgaag 180
tttgcaatcc tcctacgagc aagaatcccc tagtgtaagc cggcgccgcc gtgttcgctt 240
tgaggtagca gaggaggatg gcatgggccg gcaagtgaag gaagaactca tggcgctggg 300
ggaagcgaaa catgctgggg tggcatacat catgggccat tcttatatca aagctaggaa 360
gagctcaagt ttctgaaga agttgctatt gatgtggcta ctctttanct cgaagact 418

<210> 36651
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-B6

<400> 36651

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aacatgggtg a 371

<210> 36652
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-B7

<400> 36652

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acaggtggcg tagtagcagt cgtgtgttca ttttcatttg cagcaacgac aagttcacgg 240
cttggtgctt catcttcatt tccagctaca acaacgacaa gccacctgct ttggcgcgga 300
ctagggttgt ggtcgcagcg ccgncgtcac ctgctttggc gcgngccgc gagcagcaag 360
ggagaagacg cggagtttgg agag 384

<210> 36653
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-044-Q1-K1-B8
<400> 36653

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gccagcttag tgcatcaac aggaagcaaa gtgggagctt agcggttcgt gatctttcca 240
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ttccaagta ctcccaaaaa gactggttgt caagctatga gaaaattgac acattcgtgg 360
tacctaggtc ctctaaaaag ctctatgaag acaatgaata tgctctctac actgtaacac 420
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<210> 36654
<211> 434
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-044-Q1-K1-B9
<400> 36654

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agaggatcga gaacaccacc agccgccagg tgaccttctg caagcgcagg aatgggctgc 180
tgaagaaggc ctacgagctc tccatcctct gcgacgctga gatcgctttg atcgtcttct 240
ctacccgagg cgcctatat gaatattcca gtaacagcgt aaggctcgacg atcgagaggt 300
acaagaaagc ctctgccagc acttcaggaa cagctccagt gacagatgtc aactctcttc 360
aatactttca gcaagaagcg ggcaactgc gccagcagat acaaaccttg cagaattcaa 420
caggcacctg atgg 434

<210> 36655
<211> 378
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-044-Q1-K1-C1
<400> 36655

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tcgaccgatc gatagctcaa gcacgacgag aggagagcta cctatcgcag ttgcgcttct 180
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<210> 36656
<211> 206
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-044-Q1-K1-C10
<400> 36656

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cggtgagacg ggtctcactg agatacctgg gtcagaacgc gcaaaagtac acggggcgat 180
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<210> 36657
 <211> 371
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-044-Q1-K1-C11

<400> 36657

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 ccgccccctc ctccaaaaag agatgctctt cagattgaaa aagggtgtag cagtgcctgaa 180
 aaggatgctc agcagcgtcc taaggaatca tctccacgaa ggaaaccagc ttcacctcta 240
 cggaacgat ctccaaatcg aagggtgtaa tcaccaggc gtccacctga cccatcacct 300
 aggcgcgctc ctgattctcc gcctatacgt cgccgaccag atccttctnc tgtcangcgt 360
 ggtgacacac c 371

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 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C12

<400> 36658

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 cataaggggc tgcaatacct actgagctac aactggaccc tgggtcttaga ggggattcat 180
 tccttgcaaa gctagcgcaa ctagagaggt ctcccattac ttccgacgca ttacaccgtt 240
 cgaggatggg gaagaagaag accatagcct aaacacgggt gatgaagacg acgaccacac 300
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<210> 36659
 <211> 420
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-C2

<400> 36659

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gcgtgctgtt gcctttggcg gcggcatttg gccggcacgc cgatgccggc aacgacatgt 180
gcgacatcaa gtgccagcat cacatcgacc cggtcaggag gcatcagagc gtggatgagt 240
gccataggcg tgagcaccat gaccctagca gagagttttg cgagatgaag agccagcacc 300
accaggaccc tgcaaggaaa gagatctgcg tgcagcaacg catgagctat ggtctcgagc 360
accgtgcgag tgccagtgtt gttgatgacg gtgaaaagcg cttgcatggc tgggaaacga 420

<210> 36660

<211> 279

<212> DNA

<213> Zea mays

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<400> 36660

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ggcagttggt aaccttccct tgggtcaatg caagggccaa ttagagaaac acaatgactt 120
cttcttaaac aagcctcttg gtgggggtcc tgccggaagg gtgaagcgga agaaccagaa 180
gaaggcctca tggggcgggc acgctgagga ggacgaggag tagagggcca cgtagggatt 240
ctgcgaccgc aattgggtga aatgtgaggt ggacacttt 279

<210> 36661

<211> 200

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-H2

<400> 36661

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ttcgtatctg ataaaaacct ttcgttaatc aatttaagga cttggcataa gatcctccaa 180
tatcatgcat gacaagtact 200

<210> 36662
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-H3

<400> 36662

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ccttctcatc gccaccaatg gccactgccg aggtccagac cccgaccgtc gtggcggccg 180
aggaagcgcc cgtggtggag accccgccgc cgccgctcgt gcccaggag tctgcccccg 240
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ccgagcagca ggtagccgcc gaggcggagg ccgcggctcc tgctggtgcc gaggagcccc 360
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tgcggtcgag c 431

<210> 36663
<211> 346
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 36663

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tggaagagca caatccttgg ctcttttact gttactgttg aatctgaggt accgagtgga 180
ccaatttggc atacacttga cagcacatca cgccagggtg gtcttcatat taaagtaatc 240
aaggttcatg aaagttactc cagggaata aatagctcag ctganctgg tgctcgtaga 300
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<210> 36664
 <211> 450
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 36664

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gcttctctct cctcgtcgtc gtcgccgcgg ctgcggcgag cggcatcgcc tccgctaagc   180
cgacggcgta cgaagccctc gccgactacg acttcccccc ggggatcctt cccaagggcg   240
tggtcgctta cacggtcgac aacgccacgg gcgccttcac ggccacgctc gatgcctccg   300
cgtccggcgc gggatcctcc atctgcgagt tctccatcga gggtcctac tcgctacgct   360
accagaccaa gatcacgggc aagatctncc ccgaccacct taccgacctn cagggtgtct   420
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<210> 36665
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-H6

<400> 36665

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tgctggacac caacatcctc tgggtgaacc ccgactgcgg cctcaagacc cgcaagtaca   180
cggaggtcaa gcccgcctg accaacaatg actccgcgcg taagctcatc cgcaccacgc   240
tcgccagcgc caagtgcga ccgttttttt gccttttttcg tttccgagga gggcgtcgtc   300
gatgccaaat gggttccaat aaacagggtc gtgcccgcgg ttctgttgta ctccgactgt   360
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<211> 452
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-043-Q1-K1-H8

 <400> 36666

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 agagcgattt cttagctcaa ggttttggtt cattgggttt gatgacttcg gtactggtgt 180
 gccctgatgg aaagacgata gaagctgaag ctgcccatgg tactgttacc cgtcattacc 240
 gtgttcacca gaaaggaggt gaaaccagta cgaacagtat tgcctcaatc tttgcgtgga 300
 caagaggact agcacacagg gcaaagcttg atgacaatgc tagactactt gacttcaccc 360
 agaagcttga ggctgcctgc gttggagccg tcgagtctgg gaagatgacc aaggaccttg 420
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<210> 36667
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 36667

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 caccagcgtc gccgccaacc gctgggggccc ctactccggc gccggcgact tcgccagcaa 180
 catggccgtc atcctggccg ccctgctggc cgcgctcgcg ctgggcctgg cgctcaacgc 240
 cgnctgcgc tacctgctcc gncgcagccg ccgcgcgggc tctgttggtg gacagggcaa 300
 cggcagcggc gtgctgatgc cgtcggacga cccggctgag aagccctctg tggaggtgga 360
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<210> 36668
 <211> 436
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 <213> Zea mays

<223> unsure at all n locations
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<400> 36668

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catcgttctt cataccctct tatatcagt aagtccggtg gatagatgat ggcttccgtg 180
ggttacttcc atttcccttc aacgagacac tgggtgggac cactgcagct ccgtcctact 240
tcaataacaa gaacaaggcg gctgaaggcg aatatctgaa agacattgga gcatgtaact 300
tactgggtga acttgatcta agacggcctt acccctcgcg cgggagtgac tngtcgacat 360
gggaggcatt ggccgcactg ccgttcctgg acagagagct nntccctgca tatatcggtc 420
cttcttatac catacc 436

<210> 36669
<211> 62
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-A11

<400> 36669

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aa 62

<210> 36670
<211> 364
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-A12

<400> 36670

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caaaatacac ttcttattca aaatttgaat aataagtgga tttttgttcc tccaatccct 180
tccggtttta tggctcccaa actagtccat ctagtgcgtc gggtttacat gtggttcaag 240

tgggggtactg tgtgctaaca gatacaacaa cgaggcttgt ctgtatgtct gctgacacta 300
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anaa 364

<210> 36671
<211> 454
<212> DNA
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<223> Clone ID: LIB3069-044-Q1-K1-A2
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cccgagggcc agtaagacgg atccgatcta ccgacctgat gcgtgtctgc tgatgtcgga 360
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<210> 36672
<211> 219
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-044-Q1-K1-A3
<400> 36672

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gaggaggagc gcggcaaatc ctcggcgccc caccaccact cacatcaca ggccggactac 180
acgcaccaca ccatacgccg agccgaggag cgcccgcac 219

<210> 36673

<211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-044-Q1-K1-A4

 <400> 36673

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaagggg ggcctataaa aaaaaccaa tttaactaac acggcaaagg 240
 aataaaaaaa ttttaaaaag gggaaaccaa aataaaataa aagggaacacg ttttaaaaaa 300
 gattaaaatt ggaaaaacct gtggaaaaac aaaaaaaacc cccatgaaaa aaaattccat 360
 atagaaaggg agggaaaaag gaaa 384

<210> 36674
 <211> 318
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-044-Q1-K1-A5

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 aaagtcagaa acaaaataca atagagttgt gaagaaggta tttttgacaa ctatgcatcg 180
 tacctatctt ggtggcgaaa tcaacttcac tgatggatct attaacccaa aatctacagt 240
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<210> 36675
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 36675

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 ggaaggtctc gacggcgctc acctcccgcc cctccggcc atctccctct ccacctctgc 360
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 tcgg 424

<210> 36676
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-044-Q1-K1-A7
 <400> 36676

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 atgcggatcc tcatggctcg cctcgacgcc gccggtaaaa ccaccatcct ctacaagctc 180
 aagctcggcg agatcgtcac caccatcccc accatcggtt tcaatgttga aactgttgag 240
 tacaagaaca ttagcttcac tgtctgggat gtcggggggtc aggacaagat cagacctctt 300
 tggaggcatt acttcagaa caccagggt cttatctttg gtgtggacag caatgaccgt 360
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 gatg 424

<210> 36677
 <211> 227
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-043-Q1-K1-H12
 <400> 36677

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taaagctctt gtgcccatat taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaga gagagca 227

<210> 36678
 <211> 181
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-044-Q1-K1-A8
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 t 181

<210> 36679
 <211> 466
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-043-Q1-K1-F5
 <400> 36679

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 agcaacataa gaaattatgt tccacaaact ctcgttgtgc aaaagaacag aagactgcac 180
 acacatgtgg gagggaaaagc cttgctagat taaaaaaaga gatggaaaca agaactaaac 240
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 gaacaacgat ggtaatcgtc tttcatctaa agattacaat gaaatgttca atgatattgt 420
 tgccaaggga tttcaaagca cgtgggtact atgatgataa gtactg 466

<210> 36680
 <211> 460

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-043-Q1-K1-F6

 <400> 36680

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 aatctatggc taatcaggta gagattagag tgattgagag agcggggaag gaagttttgt 180
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 ctttgcttcc tggacacaac agccgccgcc acttcctgcc atcctttcgt cgttgattcg 300
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<210> 36681
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-043-Q1-K1-F7

 <400> 36681

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 gtcgagggat catgggtgtt gagaccgaag tccttgagac catcatttgt tgtccacttt 180
 gttggaggaa tttttgtcgg agccgctccc cagatcacat accgcttctt cctcgagtgt 240
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 ttcattgcag atgaagttca atttaagttt gacagggtgt tgagaaactt ggatgagcct 360
 gtaaatgata tcccaacgtt tgggtgttga cattcattgg gatctgttat ccacatgttg 420
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<210> 36682
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-F8

<400> 36682

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ctaccatgta agactttacc ttacgcagtt ctgcacttgt aaacggacgc ttaaccacac 180
tgcagacctg gtcttgetca tcaccatatg tgtcactggc aggcaaccat catgagtcct 240
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<210> 36683

<211> 373

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-043-Q1-K1-F9

<400> 36683

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gaaactcgct gggccccaaa gagatccaca gctatttgac aagagtgatg tacaaccggc 180
gcaacaagtt tgatcctctc tggaactcac ttgtacttgg tggggtgaaa aagggtccaa 240
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atgatatgac ttt 373

<210> 36684

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-G1

<400> 36684

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aacaatgtgg gacccatata taagattctc aagtctggtt acttaggatt ggttaatgaa 180
 aacctatttt aatgaggctg gtacaaagca gtggctctgtg aaggaaagaa gcagtgcgat 240
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<210> 36685
 <211> 282
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-G10

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 agaagactag cccccaatgc aagcttgaca tcaagatctg ctccgccatc caactcacag 180
 ccagccaaat tctcaggaca tatgttctga aagcacaccg tataactcat gctcaactca 240
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<210> 36686
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-G11

<400> 36686

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 agttccatgt tgccatcaga accttcagct gctgcgcaag tgccatcaag ggaagccgag 180
 cctgaaccgc acctggaagt ggagcaaagc gtgtctccag cccaagtgc agcaacctca 240
 tacgatgttg ctgttccaca ctggttccag cgccatgcgg acccttctga gctcatgggg 300
 ttcgcttccc gtggcctgat caaggccccg tttgtttccg cttttgagcg gcttctggcg 360
 gccataatct gcccggtca tccaaacgcg c 391

<210> 36687

<211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-043-Q1-K1-G2

 <400> 36687

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 acgccgacca ctgcaagggtg ctcgtgaaca ttgagcagca gtcccctgat attgctcaag 180
 gtgtgcatgg ccacttcacc aatcgccccg atgagattgg atctggtgac cagtgcacaca 240
 tgttcgggta tgcgaccgat gagaccctg agttgatgcc cctcagccat gtccttgcca 300
 ccaagctagg tgctcgtctc accgatgtcc gcaagaacgg aacctgcctc tggctcatgc 360
 ctgatgggaa gacccatgtg acagt 385

<210> 36688
 <211> 466
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-043-Q1-K1-G3

 <400> 36688

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 ccacatgcat cgctacagcg acggtgacgg cattgaggaa gttctgtatt gtgaatggcc 180
 cgagctgctc atggctcatgc agaagatgtt gcacttggaa ggcgagctcg aaggcactga 240
 cattcagaac aagtttggct aggcgtccta cttaagctac tgttcttcga tcgagttcag 300
 gggccgaaaag tttatgctgg tggagtgatg gtcgatgtaa gtttgctcgt ctcatacataa 360
 aggtaaagct ggatcagctn tataaaatgt atgctaaaat ggtaagtaaa ctntaaacca 420
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<210> 36689
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-G4

<400> 36689

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cctcaagcag gctgggtgcc gtgtcattgt gaccgagatc gaccccatct gtgccctcca 120
ggctctgatg gaggggtcttc aggtccttcc cttggaggac gttgtctctg aagctgacat 180
cttcgtgacc accactggca acaaggatat catcatggat gaccacatga ggaagatgaa 240
gaacaatgcc attgtctgca acattggcca ctttgacaat gaaattgata tgctcggcct 300
tgagacctac cctggcggtca agcgcatcatt catcaagccc cagactgact cgctgggtga 360
tccccgagac caaactggc atcattgtcc ttgctgaggg gtcgctgaag aaccttgcgt 420
gtgctac 427

<210> 36690

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-G5

<400> 36690

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cggacgcgtg ggcaaacacag tacattgaga accactacaa gaccagatg aagtcctctg 120
aagataggaa agagaggcgc tggatgttgg agagaaaatt acaagatgcc gaagttcctg 180
tagaagagca aaataacatt ctttaagcatt tggagaaaaa agagactgaa tatatgcgct 240
tgcagagaca caagatggga gttgaagatt ttgaactttt gactattatt gggagaagtg 300
cattcggaga ggtgcgtctt tgtagagaga aggcctctaa gaatgtttat gcaatgaaaa 360
agcttaagaa atct 374

<210> 36691

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-G6

<400> 36691

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 tccttgaggg actgcatgcc aatgtccaga ggcttaagac atacaaggcc aagctgggta 180
 tcttcccaag gcgtgcgcgc aagggtgaag ctggtgactc tactccagat gagcttgcca 240
 ccgctacca cgtccagggt gactacatgc catttactcg tggtgagaaa cgttcagttg 300
 acgttgtaga ggtcacagat gagatgaagt catttgctgc ctatggcaag ctccgtcttg 360
 agcggatgaa caagaaacat ct 382

<210> 36692
 <211> 419
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 36692

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 cgattcgtgg cagggtcaaga acgtcctagc acctagtcca gctgatccga agaagacttg 120
 ggcccaatgc aagcttgaca tcaagagctg ctccgccagc caactcacia ccttgcaaaa 180
 tttcaggaca gattttctgg cagcactccc taaaacgcag tctgtaggca tgttcacga 240
 ctcatgcaat gctcactgcc aatcaggatc tcaagacacg tggctagccg atggttctcc 300
 cacggttaac aagacgcana ttggcaaggc ggtgngggac tgggtactacg atagggaggt 360
 ccctcggcag attgattgcc cgtatccctg caacccaact tgcaagaccc gtgatgatg 419

<210> 36693
 <211> 427
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-043-Q1-K1-H10
 <400> 36693

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 aatcgacatg aactcgcgga caacatttga gagattaaat tcacagatac agtcacacac 120

atcagccctt gagaactgtt tcggaggaat cgcttcggaa gcagataact tgtagatga 180
gcttcagcgc agcctatcga aacaagaaga gaggctagcc catttcgcag tgaagcagag 240
ggagggacac ctgagagctg tggaagcgtc acgttccatc tcaaagatca ctgctgggtt 300
cttccactcg ctagatgtcc atgcatctag gctcaccagt attctggaag acacacacag 360
cgtgcaagac caacaacttc ttgacctga aaagaaattc gaggagtgcg cagctaata 420
agaaaaa 427

<210> 36694

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-H11

<400> 36694

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gaaaaaagcc tataccgttt acgcaaaagt tcccaaatgc agatccactt gcactatgtt 120
tgtagagcgc aatgctcgct tttagccaa aagacaggcc aagtgtgaa gaggctcttg 180
ctgatcctta tttcaagaat atagccagtg tggatagaga gccttctgca caggctgtca 240
caaagcttga atttgaattc gagaggcggg gagttacaaa ggaagacata agggagctta 300
tatataggga aattcttgag tatcatccaa agatgtgaa ggagtttctt gaaggaactg 360
agtcaagtgg ttatcatgtac ccaagtgcag tagatcattt taaaaag 407

<210> 36695

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-F4

<400> 36695

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ctccgcaggc tgetcategc cctccctccg cgccccgat ccagatccag atccaggggc 120
ttgtcatggc atccaaacgt atcctcaagg aattaaagga cttgcaaaag gaccctgcaa 180
catcatgcag tgcaggctct gctggtgagg atatgttcca ctggcaggca accatcatgg 240

gtcctcctga tagtccatat gctggaggtg ttttctgggt gaacattcat ttaccgtcag 300
 actaccctt caagcctaca aaggtatctt ttaagacgaa ggtcttccat gcaaacaatca 360
 atagtgatgg aagcatatgt cttgacattc ttaaggagca gtggagccct gctttgacaa 420
 tctcta 426

<210> 36696
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-043-Q1-K1-E10
 <400> 36696

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 ttctagctct aactctagcc caaactagct ctagctctct acgtgtttgg atccaagggc 120
 tagtttacia taaatgctat tttataatca tttgtctcgt ttaaaccctt ccttatccgg 180
 atttagtgty gcaaactctt gtgtggcttc tcccacacac aaataacaca aataaattta 240
 ttttcacaaa tcaaacaatcc aaatcacaaat aaattagtaa attacaatag tcgaaaatgc 300
 attcaataag aaattagaca aaacaaatcc gttgttttcc tgttctttcc aatgtggcca 360
 gccgtgcccc tncactacct ttccatggat c 391

<210> 36697
 <211> 382
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-043-Q1-K1-E11
 <400> 36697

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 agaagatcga agacagcatc aagttcctca ggtccaagcc caagccgctg gcgatctacg 120
 ccttcaccag gaacgagaag ctgaagcaac gcatcataga cgagacgtcg tcggggagca 180
 tcacgttcaa cgacgccatc gtgcagtatg gcctggacag catcccgttc ggtggcgtgg 240
 ggcacagcgg gttcggccag taccacggca agtactcgtt tgacatgttc agccacaaga 300
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agaccaagat cggaatgctc ag

382

<210> 36698

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E12

<400> 36698

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tggccgtcat ggtgtcagcg gggctgcacg tctccggcgg ccacatcaac ccggccgtga 120

cgctgggcct cgccgccacg ggccgcatca cgctgttccg ctccgcgctc tacgtggccg 180

cccagctgct cggctccacg ctgcctgcc tctcctcgc ttctctcgca gttgccgaca 240

gcggcgtgcc cgtgcacgcg ctgggcgcgg gcgtcggcgc gctccggggc gtgctcatgg 300

aggccgtgct caccttctcg ctgctcttcg cggctctacg caccgtcgtc gaccgcgcgc 360

gcgccgtcgg cggcatgggc ccgctgctgg tgggcctggg cgtcggcgcc aacgtgc 417

<210> 36699

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E2

<400> 36699

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cggctgagct ggggtcctgg tcgctgtacc gcgccgtgat cgccgagttc atcgccacgc 120

tgctgttcct gtacatcacg gtggccaccg tgatcgggta caagcaccag acggacgcgt 180

cggcgtcggg tgccgacgcg gcgtgcggcg gcgtgggggt gctgggcata gcctgggcct 240

tcggcgccat gatcttcgtc ctgctctact gcaccggcgg catctcgggg ggccacatca 300

accccgccgt caccttcggc ctcttcctgg cgcgcaaggt ctccctgggt cgcgcgctgc 360

tctacatcgt ggc 373

<210> 36700

<211> 415

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E3

<400> 36700

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 gtgtacagaa atgtgaaaag ggtagatagg ttaaaaaatg aattgcatga aagagatgac 120
 aaggagcttg agcggacagg tcagccactt tgtatatatg agcctttttt cggggagggg 180
 acctggccat ttctgcacca gagctctctt tatcgtggag ttggcctgtc ttcaaaggt 240
 cgaagaccag gagcagatga tattgatgct tcttctcgtc ttccacttct caacaatgtt 300
 tactacagag atattcttgg tgaatttggg gctttctttg ctcttgccaa cagaattgac 360
 cgaatacaca aaaattcttg gatagggttt cagtcctgga aaggtacagc aagaa 415

<210> 36701
 <211> 445
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E4

<400> 36701

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 caacaaatgt tgaaattgaa gtgcctgttc cttcagatgc cacaaaccca aatataagaa 180
 cttcaatggg ttctgctgca tatgctcctg agagagatgc aatggctctgg aaagtaaaat 240
 cattccctgg tggcaaggaa tacatgtgca gagcagaatt tagtcttcct agcataacag 300
 cggaagaagg ggccccagaa aagaaggcac caatacgagt gaaatttgag ataccatatt 360
 tcaccgtatc aggtattcag gttccgtatc tgaagataat tgaaaagagt ggttaccagg 420
 cactcccctg ggtagatat atcac 445

<210> 36702
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E5

<400> 36702

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ccgtcgtact accagcagca gcagcagcag gcgccaccgc ctcagtacta ccagcagggt 180

ccccacagc cgtggggcgca gcagcaacag tacgctccac cgccgcgcga gtaccgcct 240

cagatgcagc agtacgtcc accaccgcag cagtacgtc ctccgcgcgc gcagcagtac 300

gccctccgt gcgagcagca gtccgtact tcgccccgc agtacgtac ttcgacgcc 360

cagtacgcgc agccggcgca gtacgcgcag tcaccgcagt atgggacaac gccgggaaag 420

cgtgaggtca gaacctgtg ga 442

<210> 36703

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E6

<400> 36703

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caatcgaacg gtttccttta tcacctgtg ttctgttaag cttgtaatct ttctgaacgt 120

gcagttacct gccagagct gagttcatta tacaataaat accgggatgt taatgtttgg 180

actctggtgc atggagatgc agtgggtgctt gttattacca tgaaaataat gttttt 236

<210> 36704

<211> 453

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-043-Q1-K1-E8

<400> 36704

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atccaacacg tccatgtaca aaaactagcc actacacatc acgcgaggtg gctcccgatt 120

attcgacttg ctgcacggct ccaattcagt tcatcaccat acacgcatgc atcgtggcgc 180

acgccactca cgagcgcggc gcccatgcgc ccacaactta ttacgactcg tcaccaacca 240
 accaaaccaa gccaccagc aggtccagtc caggcgtgtg tgctgtgctc tcctctaccg 300
 gccgccggcc acatcacgcc gccgaggcgc ccttggcgtc gccgctgcag tagtcgcgaa 360
 cggcctcgag cttgaaaggc ggngcgtcng tggcgagcca ctgctcgacg gtgaacagct 420
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<210> 36705
 <211> 247
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-E9

<400> 36705

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 catttacatt gtttttacat cgacttgcag ttctgatgtc atcacagctg aaaaaagcc 180
 attgattcca gtggacatta cttccgagtt ttgatgttgc aaggatgaga agacatacat 240
 tcctttt 247

<210> 36706
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-043-Q1-K1-F1

<400> 36706

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 aaggatatct gcccaaaca aggccgtcaa gccaccatgg ccgtgtccgg cgagaagccg 120
 ccaccgccac cgccaccggc cacggcgtcc ggcggaacgg caaggaagct catcctagcg 180
 ctgcttacat gtctgtcgtc ggcgctgctg tacaggcaga ttcagccgct accgccaag 240
 atccccggca cgccggggcg cccgccggtg acggcgacca ggacgaggct cagcgacggc 300
 aggtacctgg cctatctgga aaccggcgtc ccgagggaga aggccaagca caggctcgtc 360
 tttgtccatg ggttcgactc ctgcagacac gacgcgcttn cgatctccac ggagcttgcg 420

caagagctgg gcgtttacat g

441

<210> 36707

<211> 460

<212> DNA

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<223> Clone ID: LIB3069-043-Q1-K1-F10

<400> 36707

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tgaactacat tgagtgtatc aatgtggatt tcaaataaac aagaaaggaa tccttctatg 180
atctccagct tgatgtcaaa ggttgtcagg atgtctatgc ttcatttgat aagtacgtag 240
aagtggagcg tctggaaggt gacaacaagt atcatgccga caaacatggc ctgcaggatg 300
caaaaaaagg agttcttttt atcgacttcc ctctgtttt gcaacttcag ctaaaacggt 360
ttgaatatga ttttatgcgt gacacgatgg tgaagataaa cgatcgttat gaatttccac 420
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<210> 36708

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-F11

<400> 36708

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atcttcagcc ccgtctgttt tctaagatta tccttgagaa atgcaaata caagtcttat 180
ccaccaaggt tgaaatacgc cttgcaaaag ctgagcaggt gacatggaca accctggatt 240
atagtggaag accaaagact gttccccaga agataagcac gccagctgaa acagcccaa 300
gaccttcata cccatcttca aaggcgaaaa aagactggga taaactggaa gctgaagtca 360
aaaaggagga gaaggaagaa aacttgatgg tgatgct 397

<210> 36709
 <211> 462
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-043-Q1-K1-F12

 <400> 36709

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 tcagttcagt tctctaggaa aagttcccgt ggttcagcaa tgtgattggg ttcataagggt 180
 ttttcgtgtg ttggatgatca aagcaatctg gtgtaagctt gcgtagttga catcagagtt 240
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 aggttttttc cccagcagat gaaaccatgc atgcagcgtc aaagaaggat tatcagttgg 360
 agtccatgac tggctcagtt cgttcaaacc agatgacaga agaaaataac cgttcagctg 420
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<210> 36710
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-043-Q1-K1-F2

 <400> 36710

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 gctaatatcc gagatatttg gctccacacc actctttact cgcggtgccg attcagattc 180
 ttttcgcaag cagtcaagtt caggtccgct gatgacaggc aagaacagga agttctggca 240
 gaggttgcca agcctgtcaa gagggagcat gagtgagcat ggcatctcac cagactatga 300
 aacccgctcg caatatagtg gtaggtgagg aaacctttgc ttggctntga ttagaaaacg 360
 gattgatact cagactggga ataaaagagt tcaagctgag ctagtgtaaa ctacgcac 419

<210> 36711
 <211> 279
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3069-043-Q1-K1-F3
 <400> 36711
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 cctgttcccg tctgttatat accttatcgt aggctgatat gcccaacagt atgtcagttt 180
 taggcggtgc cataggacat gaggctggat ccagtgccat ttttcgatca tactttttat 240
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<210> 36712
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-043-Q1-K1-E1
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 gctccatagg aggagatggc gctcacaaga atcgggtcttg ctggccttgc ggtcatgggg 120
 cagaaccttg cctcaacat tgcagagaaa gggttcccca tctctgtgta caacaggaca 180
 acctccaagg tggacgagac cgtgcagcgt gccaaaggcag aaggaaacct tcccgtctac 240
 ggcttccatg acccgcgctc ctttgtgaag tccattcaga agccacgggt ggtgatcatg 300
 ctcgtaagg cgggcgcgcc agttgaccag accatcgca cgctcgcagc tcacttggag 360
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<210> 36713
 <211> 411
 <212> DNA
 <213> Zea mays
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<210> 36715
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-C7

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caaggttttc cattcaagcc accctctcct tggaaccacc caaggtagga ggatgaccgt 180
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 ttcaaagtga ttgaacaaaa gtacagaact ttattgttta ttttctcaac ctaacatgca 180
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 <213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-D10

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cgatgctgct caagtacctc aagtggaagc ccgcggccaa gcccacggc gccatcgag    240
cggcggaggt ggcgcgggag ggcgcgcagg ggaagctcta cctgcagggc cagcaccggg   300
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<223> Clone ID: LIB3069-043-Q1-K1-D11

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atgaaagcct ggtagtaact cgtgaggcac atactattta tgattgttat gtgccatctt   240
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ggatthgggt tcgtggagtt cgttgatgct tatgacgctt ctgaggcaca gtaccacatg   360
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 <211> 428
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<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-D12

<400> 36720

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ctcctcaaga gccaaaccact gtaccagtac atactggaat ccaccgtctt cccacgcgag 180

ccggactgcc tgcgggagct ccgcgtcgcc accgccaccc accccatggc gggcatggct 240

gcgtcgccgg acgaggtgca gctgctgcag ctctgatcg agattcttgg cgccaagaac 300

gccatcgagg ttggcgtctt caccgggtac tcgctgctcg ccaaccgcct cgccctcccc 360

gacgacggca agattgtggc catcgacgtt acccgcgaga gctacgacca gattgggtcg 420

cccgtgat 428

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<212> DNA

<213> Zea mays

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gagaaggatt cttggcacgc accaccaggg gggggggcgt cattccgcgg caacgactgc 240

cgctggccgc gtgcggaggc tcgggctccg cggtgcgcgc agcatctcga tcagcgactc 300

cgccttggtt ttgagcttgg ggcgggcgga agaggactgg gagagggcga cgaggggcgg 360

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<212> DNA

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ccattgcttc ccttcagcaa ggcagacgaa caagaagata agaaggatgt gccgaggccg 180

gtgacatact cctactcttt ctttcacctc atcttctccc tggccagcat gtactcggca 240

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tggccatctg tctgggtcag gattgcaacc cagtgggcga cggcaggtct gttcatatgg 360

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<210> 36723

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-D4

<400> 36723

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gaaagacctt gtggctcagc agaacatgta tgcacagctg ctctctctcg ctttgcccgc 180

cccgccaatg cctggcatgg gtggccctcc acctccgatg ggcggaatgg gcatgcctcc 240

gatgggtatg ccgccgatgc cagcatttgg gatgccaccg atgggaagct actgatttgg 300

ttttgcagca taagtggaaac ttcattggag ttgtagatgg ttgacagttt ggaatcaata 360

ttcttcattg taccaggaaa ctttttggcg agtgagtga atcagtttta cccgtaagtt 420

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<210> 36724

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<210> 36725
 <211> 461
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-043-Q1-K1-D7

 <400> 36725

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<210> 36726
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 36726

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<210> 36727
 <211> 468
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-043-Q1-K1-C3

 <400> 36727

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 <211> 459
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 <213> Zea mays

 <223> unsure at all n locations
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 <400> 36728

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 aagccaagcg gngcgggtgt tgaggagaag gaagccgtgg ctaatgaagg tgcccaggaa 420
 aactagagct tttctgtgca tgccggcata attcgacat 459

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 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-043-Q1-K1-B1

 <400> 36729

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 aagttggaac tttctgctgt gccatctagc tattacagtg gtcagctaga ccctgaccgt 240
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 <211> 451
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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ataacgcagc accgccccgg caaggtgtcg gtcacgtggg acgacgcggc ggacagcgtc 420
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<210> 36731

<211> 409

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-043-Q1-K1-B11

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<210> 36732

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-B12

<400> 36732

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tctggcctta gccactcttc tacaaatcct tgcaaaggcg gcgaacctat cgaagaggat 240
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<210> 36733

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-B2

<400> 36733

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<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-043-Q1-K1-B3

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 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 36735

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<210> 36736
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-043-Q1-K1-B7
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cggaagac 369

<210> 36737
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-B8

<400> 36737

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<210> 36738
<211> 436
<212> DNA
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<223> Clone ID: LIB3069-043-Q1-K1-B9

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<210> 36739

<211> 223
 <212> DNA
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 <223> Clone ID: LIB3069-043-Q1-K1-C1

 <400> 36739

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<210> 36740
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-043-Q1-K1-C11

 <400> 36740

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 cgtgctccct gcaggacgtc gccagcaggt gcgtcgacgc cgccaagctc gccggcttcg 240
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 accagtgcc gaccatcgac tgcggcgagg gagtcgtccc gttc 404

<210> 36741
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-043-Q1-K1-C12

 <400> 36741

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cgtcacgggtg attacttttt gagacaaatt ttgaagtttg aggaaatgat tggatgaactg 180
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tttttgctct cttttgtact ccgttgaaac cccatctttt tttgtttcct tattgactct 300
gaagcccggt gaaaccggcc attattaacc gtgtaccgtg taatgttact taggcctgt 360
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<210> 36742

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-C2

<400> 36742

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agacaattgc tgattactat tactaattgg aatgtaacac gcttgagaca gcaatacatt 120
acagagctac ctaaattggga ataccacaat accgaccgaa accaccatga ataactgaat 180
taagcttaca cgacatagcc aacacgggaa accatthttga tgaaattctt gcggctgcct 240
ggatgctgtg tgcacacag tattgaacct tacgtgtcgc agcagcagac aagaatggca 300
agtttcaatg atatcgagc taaaacagca tgttgaattc tt 342

<210> 36743

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-A7

<400> 36743

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ccttattagc aataaacaag aggcggattt tgtggaaacg aagtcagacg gtggcagtag 120
tgaggggatg attttttgag taggttttgt taagtcatat tttgttcaat ttccccaaa 180
cacttgattt tttgtttctc tgattctatt tgggatattc tgtttgattc tgttgaaga 240
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tgcaggctta t 311

<210> 36744
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-042-Q1-K1-H12

 <400> 36744

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 caacaagggg ttccagcggg accagaacct gcagctgcac cgccggggcc acaacctccc 180
 ctggaagctc cgccagcgca gcagcctcgt cgccccgtcg tcggcggcgg caggctccgg 240
 cggcaggcag cagcagcagg gcgaggccgc gccgccgcgt aagcgcgtct acgtctgccc 300
 cgagcccacg tgcgtgcacc acgaccggc gagagctctg ggggacttga ctgggatcaa 360
 gaagcacttc tcgcggaagc acggggagaa gcggtggt 398

<210> 36745
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-042-Q1-K1-H2

 <400> 36745

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 aggagggaga tctccaggac tagaataggc tgcttcacat tcagtcaccg tcagtcatga 180
 aaaactaatc atttgctgct tttcgtcgtc gtagtagtag taggtcggta atcatctgtc 240
 gtgggtttgt ttcgtttcta tcattaatca gcattagtag tagcagctgc tgctgcgggg 300
 gcacaacaca agggggggat aggaactgca atacctgtt gcgctttggt tgtttctgga 360
 accgatgtta tgttaaattc tcaa 384

<210> 36746
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H3

<400> 36746

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ttttagtacg acgacttatg ttggttttca ggctgtaatg accgaggaaa tgtcagaaaa 180
atttcgcggt ttgcctggag tagttttcat ttgacctgat tcatatctat atccagaaac 240
aaaggagtac ggaggagaca aatatgacaa tgggtgtcatc actccaagac caccacctgt 300
tcattatagc agaccatcaa gaactgacag gaaccgtaac taccgaggaa actaccagga 360
tggcccttca ca 372

<210> 36747

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H4

<400> 36747

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tcatacgccc accacccatg ttgactata ggctgctaaa accgatgaca tgccataccg 180
attactcggc atgacggccg ttatccacat tcagcctgac acatatctat agccattcac 240
gaaggaatac ggacgataca aaaattacat tcgcctcatt actacgagtc cagcacctgt 300
ggataataac atagcattga ttactgacac gatccccaat taccca 346

<210> 36748

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H5

<400> 36748

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aaacaattgc tgagaagagc acatgaggac tttcgcagtc tgctttgcat tgtatgttaa 120

gatacttcag gtctcagttt tgattgatca ggttctgccc cgtcgaaaaa aatactagct 180
gttgctgctt tacagggttt tgtctcagtg tattggtggt tgtttatttt cagctacttg 240
agcatggggg ccatgattct ttgttcatct tggatgtaac tagctgattg gtgttccaat 300
gatgttgtat ttgcagaacg attttttctt tttaaatac caacaaccac cacactaggc 360
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<210> 36749

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H6

<400> 36749

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gcactgcgcc caagtctgac gatgtctacc tcaagctcct cgtcaagctc taccgtttct 180
tggtcaggag gaccaagagc aatttcaacg ctgtcattct caagaggctt ttcattgagta 240
aaaccaaccg accaccaatc tccatgcgcc gccttgtcaa gtttatggaa ggaaaggaga 300
agaacattgc tgtcattggt ggcacagtca cagatgacaa aaggatccag gaggttccag 360
caatgaagggt tactgccctg 380

<210> 36750

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H7

<400> 36750

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gggaacgaca aaacctatga ctacatagga ttttattgaa aagaatccta acacttcatt 180
gggtgggatg gcggaacaaa ccaaaaaaat tgctttattt gataaggttc taaattaaca 240
aataagacag gaaagagtaa atattcgccc gcgaaatcct tattggatta gaatacttta 300

ccacgattca ataagaataa aaaaaaagga gattccaaaa aaggaaggat tacattttat 360
ataaatattg aa 372

<210> 36751
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H8

<400> 36751

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aaatgttgtg gcggcacttg actctaagtt ggtagtgtaa atataaaggt accatctcac 180
agtattaggc actttttatg cagaaacaat ttgacgcaca atcatattga attgattatc 240
cacttgaaac cttgaacact tgctttcttt tgataaccat gtggactaca ccaattatta 300
taaacgatgc acaatctctg ctagatgttg aaaatgatac taaatccctc atttttcgta 360
tctattgctg gcaaataaca 380

<210> 36752
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 36752

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gaggcggcgg tgcggcaggt gcacgagaac ctggcgctga tcgagtcga gctccgcgac 180
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gacgccgacg ccttcccgcg cttccacgcc tggtcgcgcg acttcgaggc cctggacgag 360
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<210> 36753
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-A11

<400> 36753

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cccctggtaa atgtgctggt ctgtggctgc actggtcac accatgatct ggagctttga 180
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ttcctttntc atcgaagtgg gttttatttt aaaaa 455

<210> 36754
<211> 469
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-A12

<400> 36754

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caggtgaagc agcgacttgg gataatcatc ttcacctgcg gcaaggttat tgggaacaag 120
tgggatgtct acctcgacct cctccaggcc gactactcag aaggggatgc tctggatgct 180
ttggaattgt tccgtactg ctgcaggcga atgctcatga cacatgttga cctcattgag 240
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atcagtagaa atgggttggtg agtgtgaaca tgcttttgct catgagcatt caaggacttt 420
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<210> 36755

<211> 466
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-043-Q1-K1-A2

<400> 36755

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gccgctaaga agcgatacaa gccattgac atttgatgca tggcaaaaag taccagaaag  240
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ttctagcaca agctanttgc tttcatcaca aggttctctg gctttggatc tatgcggcag  420
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<210> 36756
 <211> 150
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-043-Q1-K1-A3

<400> 36756

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tgccctaagg cggctgttat tgaaaagact                    150
  
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<210> 36757
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-043-Q1-K1-A4

<400> 36757

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ggcgcctacc tcatatcgga actgtatgat gtggagagca aatgatggac atccctcgaa 360
ggatgagggg ataacgtttc aagtagcaaa atttgattcc atcgggattc cagattgttg 420
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<210> 36758

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-A6

<400> 36758

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gccttccgca cgagc 435

<210> 36759

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-H11

<400> 36759

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<210> 36760

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F7

<400> 36760

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 taccgcgcgt gcccgaggcc gcaccgcacc gtgggctgca agaggcacac ggaccctggc 300
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<210> 36761

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F8

<400> 36761

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379

<210> 36762

<211> 362

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-042-Q1-K1-F9

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cgttcggcaa cccgctctgg gtaccggagg acgtcgacga ccagcagcag caccacgcgc 120

cgccgccgac gcccatgggg ttggggccgg ggcaggggca cgatgaacag aacctcctgg 180

ccctggcctc cgccgcccgc atggggggccg gcggtatattt cagctcgcca gcggtgctcg 240

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ac 362

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<212> DNA

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cgccgaggag gagagccggc tgatgcgcgc cctgcggggc gcctaccgcg gcacgttcat 240

gtgcagcggg ggttacacgc gcgagctcgg cgtggaggcc gtcgagtcgt gggacgccga 300

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cgacgccccg c 371

<210> 36764

<211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-042-Q1-K1-G10

 <400> 36764

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<210> 36765
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-042-Q1-K1-G11

 <400> 36765

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 cgccctacga tggggcttcg tccgtatggg ctacggcatt ctgcgtcgcg agctgctact 240
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<210> 36766
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 <212> DNA
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<223> Clone ID: LIB3069-042-Q1-K1-G12

<400> 36766

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<210> 36767

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G2

<400> 36767

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<213> Zea mays

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<400> 36768

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gataactcaac tctgtaccct taatactgct cacatatctt ccatttacca accaactaac 180
 ataaaaaccc acccgcataa gaatctaccc taaacttacc attccatgac caaaacatcc 240
 aattcgaaaa acaggcttat tactactaaa tccaatgaa tgaccacgtc taaattttta 300
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<210> 36769
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 gattggcaac ggctatgcc cagtgtgga ctgccacacc tcgcacattg ctgtcaagtt 240
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<210> 36770
 <211> 379
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-042-Q1-K1-G6
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 agccatcccg ttcaagagca ggtcttaagc tgccgtggcc gtgccgagac atgccagtcc 240
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379

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<211> 358

<212> DNA

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<400> 36771

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tttctcctcg ccgtgcttct ggcacgagtg gccgctggca ccgccttcga cgaaacggct 180

gctgccggct tcgggcttgg ccacggcgcg cgtttcgcgc gcaagcatgg acgtgctgcc 240

gctgagatgc cccagccgga gccacaacct aaaactaagc cggaacccca tatgcagcca 300

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<210> 36772

<211> 380

<212> DNA

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<223> Clone ID: LIB3069-042-Q1-K1-G8

<400> 36772

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agcaccatga ggaagaagct ggacacgcgt ttccccgctc ctcgattaa aaagatcatg 180

caaacagatg aagacgtcgg caagattgct caagctgtac ctgttctagt gtccaaagca 240

ttggagctat ttctgcaaga tttatgtgat aggacatatg atattacaat tcggaagggg 300

gtcaagactg tgggttcttc ccatttgaaa caatgcatac aaacgtacaa cgtctatgac 360

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<211> 76

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G9

<400> 36773

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<223> Clone ID: LIB3069-042-Q1-K1-H1

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tgttgcgctt caccttgccc agataaagag ggcaaagaag ttccaaatgt atgactacgg 240

tagctctgca gcaaatattg aagcgtacgg aacaccggaa ccattggact tgggagctca 300

ttatggtctc attgacattc ctgtggactt agtcgctggg cagagggaca gagttatctc 360

accatccatg gtaaa 375

<210> 36775

<211> 446

<212> DNA

<213> Zea mays

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<400> 36775

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gcgaagctgg gcaactgtgaa gcaaaaagct tcagaaactt cttctgttgg cgcatatacc 180

caatgccaga agtgtttcca gcatggtcac tggacatatg agtgcaaaaa gagcgggtgt 240

acatatcacg gccctcaaga acgtagcagc ttaagaacct caagctgaag aaatgcgtac 300

ctgtttctta tcgatttgag aatcctgatg gtgatcggcg atcgtgagct tccatgttat 360

gtgtttgtgat acttgagact tttattatga ctatatatga gatattggct attattatga 420
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<212> DNA
<213> Zea mays

<223> unsure at all n locations
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ccggngcgtg gagtacc 377

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<212> DNA
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<223> Clone ID: LIB3069-042-Q1-K1-E11

<400> 36777

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cggcttcgtc accttctcca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg 300
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<210> 36778
<211> 274

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-042-Q1-K1-E12
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 aaaaaaaaga aaaacaaaaa aaaaaaaaac aagacttaca gacacatgca agcaaataac 180
 taaattataa aatgagctac cttaaattaa ttgactggcc atcgatatac aactgactga 240
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<210> 36779
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 <213> Zea mays
 <223> Clone ID: LIB3069-042-Q1-K1-E2
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 aggctgggtg cccagcatg aagtccgagt cgcagaccgt caaggccagg ctacacatct 180
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 g 241

<210> 36780
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 gctgcattgc tggaagagga gctttctcgc aggggaactt cagtgttacc agcgggtgaa 180
 caatttggga aatggaaagg actgcaagaa agcactgatc gtgagatagt gtggccacca 240

atgggttattg ttatgaatac cttcttgga aaagatgaag atgataagtg gaagggcatg 300
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<210> 36781
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<210> 36782
 <211> 372
 <212> DNA
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 <223> Clone ID: LIB3069-042-Q1-K1-E5
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<210> 36783
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 <213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E6

<400> 36783

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 cccagagccc gagccagagc ctgaatcccg ggaagagcag gatgtggacg ccgctgaggc 180
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<210> 36784
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E7

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 tggaacaatc agatctttct ttgatgcaaa catggccctc tgcgagcagc ctccaaagtt 240
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<223> Clone ID: LIB3069-042-Q1-K1-E8

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<210> 36786

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-E9

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cagtggggct gccatagttg gagagtggcg gcgtagcatg ccgacgactg cgagttcctc 360
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<210> 36787

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F1

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 <223> Clone ID: LIB3069-042-Q1-K1-F10

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 <223> Clone ID: LIB3069-042-Q1-K1-F11

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 aaacacattc ttcgtgtcat ctgcaaaaaa gcctcagtca tctcgtgacg acagttgggtc 360
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 <212> DNA
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<223> Clone ID: LIB3069-042-Q1-K1-F12

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<210> 36791

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F2

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<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F3

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<210> 36793

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F4

<400> 36793

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caagtgctgc ccggtgctgg aggggctggt ggagctggag gcggccgtgt gcctctgcac 360
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<210> 36794

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-F5

<400> 36794

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<210> 36795
<211> 377
<212> DNA
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<210> 36796
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<210> 36797
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 <212> DNA
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<223> Clone ID: LIB3069-042-Q1-K1-C4

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<210> 36798
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 <212> DNA
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<223> Clone ID: LIB3069-042-Q1-K1-C5

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<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C7

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aggcaaagt ttgtacagta gctaaggatg taacgagttg ggcacgaata ctaccacgag 300
tcactatcct tgtgctggaa ttacagtac ggtggaaact aaaatggtgt aagtttctag 360
tacacgagtc ac 372

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<211> 373

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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actctctctc cgacgccacc tcccgctgc gtcgcaacct cgcttacttc cgcgtcaact 360
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<210> 36802

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D1

<400> 36802

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cctggcaatt cgtttctatg tgatttcacc agccccagcc tcaccgccga gtgcttcatt 180
ttttttatgg tttctcatcc taatcatcat cggaaccaa ctaatgaagc actgcgcgcc 240
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<211> 406

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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ctgaccacat tgccgacccc gtcaacaaca acgcttgggc ctacgccacc aacttcgtcc 300
 ccggcaagtg agggagggcg cgncggtgac ctttaggtgt ccggatgcat gtgagcgcac 360
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 <213> Zea mays
 <223> Clone ID: LIB3069-042-Q1-K1-D11
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 catgcaccat ccacaatatt ccttgatgaa atagatgcta tcatcagcca gcgtggtgaa 360
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 gggcaaggct cttgacaacg ggcggctgct gacgctgtcg ctggaccgca cgtccggctc 300
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D3

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ctgatcagga agtacgggct gatgtgctgc aggcagtgtc tccgcagcaa cgccaaggac 180
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<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D4

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ccatgtccgc caacctgatg tccgacgtcg acgacatcat gcgacgggaa gccgactccg 180
gcctggacat ccgcttcgtc cacctccccg ccgtggagct cccacccgtc caccacggcc 240
tcgaggactt catgatgcgc ttcatacagc tccacgcgac gcacgtcaag gaggccgtct 300
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acgtcgcgcy cgagct 376

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<211> 370
<212> DNA
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<223> Clone ID: LIB3069-042-Q1-K1-D5

<400> 36808

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accactccct caacaacgcc ttcagcacct acggcgaggt cctcgagtcg aagatcatcc 180
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cgatgcgcag cgccatcgag ggcatgaacg gcaaggagct cgacggccgc aacatcaccg 300
ttaacgaggc ccagtcgccg ggccggccgtg gagggggcgg tggcggatac ggtggcgggc 360
gccgtgatgg 370

<210> 36809

<211> 66

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D7

<400> 36809

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<210> 36810

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D8

<400> 36810

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ttcgccaaac cgatgttcca cagtcgacga catcatgcga cag 163

<210> 36811

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C12

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cgtaccagta ggcaattcga tttgttacca gcaacaagtg atctgattcc cagtggtcct 180
gctagagtaa cattttttac cactgtctgt tgtctatgta tcctttgata ttgtgttgta 240
ccaatgtgca atttactcta tggactgatg gaacattgtg ccateccatc caccagattt 300
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<210> 36812

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-D9

<400> 36812

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aaggccacca cgcgccatgg atcgccggtc tctaccgcca cctcaattga agggtcaccg 180
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<210> 36813

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A8

<400> 36813

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gtaatgtaac ataacggcaa tggcatatgc agctgatcct ggtctgctg tatcatctcc 180
tcccaccggt aaagagaagt tctttctgcc gccatcgcca tggtcagtca gagcttctct 240
gctatagctg ctggatgtgt tgtgtgttgc gtctgtatcg tccctactcc ctagtttgtt 300

cgacttacat ggaaacctga gaccagaccg ggtatcgagc ggctgcttgc agggatggag 360
tgctgtaatg 370

<210> 36814
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A9

<400> 36814

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cgaacttttag ctctataatc cataaaacat ggccaaacac cctaaacgaa tcagcctgac 180
gaaccacaag catctgacct gctacgtatc cgatccaggc ccctaagtgc aactcactgt 240

<210> 36815
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B1

<400> 36815

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gtgttctgcc cgcgggtgtc gccatgtact tttaccgcac tacattttgg ttctatagag 360
agaggatttg tgt 373

<210> 36816
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B10

<400> 36816

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ggttcgtgtg ggtgatgggc gcgcgaggag tgaagggcaa gcgggcggtg gatctcaaga 180

tgggatccat cagcggggac aaggtgcagg acaagtacac ccagtactgg tccttcttcc 240

gccggcccaa ggagacggca accacggcgg cgtcggcgga gaaggtgccg gccttcgtgg 300

acaccttcta caacctggtg acggacatct acgagtgggg ctggggccag tcgttccac 359

<210> 36817

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B11

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gcaaacggca aaggctcgcc tgatgtggcc gtgaacatga gagctccccc cttccatctc 180

ccagctggac caaagaagaa cccattagat aggatagcac ctgacaccac cgacatatac 240

acaagatecc tgaacggcat cgtcgccgcc gccgctgcat cagtgggcgc tggcgctggt 300

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<212> DNA

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<223> Clone ID: LIB3069-042-Q1-K1-B12

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gcgcgctgc tgctgctggc ggcggggggc gggacggcgt cggcgggcgt gagctgcggc 180

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 a 361

<210> 36819
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-042-Q1-K1-B2
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<210> 36820
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-042-Q1-K1-B3
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373

<210> 36821

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B4

<400> 36821

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<210> 36822

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B5

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gtgtgagcat gtacttactg ctgtcatgtc atatgacatt gacattattg gtcttgaata 300
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<210> 36823

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B6

<400> 36823

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<210> 36824

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-042-Q1-K1-B7

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gagaagcacg aggcgaagaa ggaccccgag cacgcgcaca ggcacaagat cacggaggag 360
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<210> 36825

<211> 374

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B8

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 cattgctgga accgagggtg ccaaagagag tgctgacgtc atcattcttg atgacaactt 300
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<210> 36826
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-B9

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 tgccctggaat cggtcagctt acagtcattc tgggagtgat cgatgaaatt aggaattgcc 300
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<210> 36827
 <211> 371
 <212> DNA
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<223> Clone ID: LIB3069-042-Q1-K1-C1

<400> 36827

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<210> 36828
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 <212> DNA
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<223> Clone ID: LIB3069-042-Q1-K1-C10

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 aattgactga cgagcctggt gttgatccat ttgcgcaaag aagggatgag aagaagaaga 180
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 ctttgccaag tcatatacag cttgctgcga aggcgttgcc catcacagga acaaaagctg 300
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 caacagcaag tgggtgggaag tttgatg 387

<210> 36829
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A7

<400> 36829

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 aagaagcact ggcagaacta tgtcaagaca tggttcaacc agcccggccg caagcagagg 180
 cgccgcatcg cacgtcaaaa gaaggctgtg aagatattcc cagcaccaac tgctggccct 240
 cttcgtccca ttgttcaatg ccagactctc aagtacaaca tgaagtcaag ggctgggaga 300
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375

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<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 36830

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tggccgttgc aaggagcagc caggttccat ccgagtatta ccagtgggag ttcagcatcc 300
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ggagaggcgg cgacgagtgc gtc 383

<210> 36831
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G7

<400> 36831

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caacaattgg agagcaagct tccatgtaac tgcgatgtca acatcatcca atcgatcggc 180
tatattcatg tcccgaata ctggattatc tgaacacttt gttgagttcg acttcttgta 240
cccaaccgag ggtatccata gacgcttaga caatggctta cgtattactg caa 293

<210> 36832
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G8

<400> 36832

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aaaaaaaggg cggcagtttt taaggtttaa agtttactta cccgtgattt caagatattt 180

gtttttttat agtgtaacta aatttaaatt aactggcctt ctttttaaat cgttttgact 240

ggaaaaacct tggcgttacc aaatttaatc gctttgaaga aaataccctt ttcgccagtt 300

ggcttttttag cgaaaaggcc cgaacatatg gcctttccaa aaat 344

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<212> DNA

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<223> Clone ID: LIB3069-041-Q1-K1-G9

<400> 36833

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ttgaaaaaaaa aaaaaaaaaa ataatatac acattactga aataaaaaat taatagtaaa 120

aattatattc aatatcaaaa tttatggtct gacaaattac attttaagct tttcctattg 180

<210> 36834

<211> 449

<212> DNA

<213> Zea mays

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<400> 36834

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gacggtcagc aatatatggg aggcattgta ggatggcata cccaagagct gttatccctg 120

gtggttcctt tagagggcgt gctccgatga aagctggtgc tagaagttta cagtggaaac 180

gggagccttc aggcactgat tcaagtgcag gtgcgaaaac tgacatgagt gtggcatttt 240

cctctgaaca ggtgcttcca cgtgcaacat atgggagtat gttaccgctg agctgatata 300

atgagaacca agtggtatcc cactcgtcgc tcttggccct aatggctgaa tatggacagc 360

aagctgagaa gattggtcct tctgctgca ctgtaaaaga aaagtaccaa aaaaatgaaa 420

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449

<210> 36835

<211> 354

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-041-Q1-K1-H10

<400> 36835

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atccggtcga gcccggcaag cccgccactt tcaagatctc cgcttctact gataaaacca 120

tcgagaaggg gaagctggtg atcgacgtca agtacttctt cttctacgtg cactcggaga 180

cgcgcgacat ctgcggagag atctcctgtc cggcgaccgg cgacttcgtg ctgtcccacg 240

agcagacgtt gccagggttc actccaccgg ggtcgtacac gatctacatg aagatggtcg 300

gggacgacga cgaagagctg agctgcatct cgntcggctt cagcattggg ttcg 354

<210> 36836

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-H12

<400> 36836

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tactgaagcc gatgtgagtg caaggcgatg cagacgcata cttagaacca gggatttgga 180

ccggccgcct ctgagatcaa agttgaatga ggactagatg cg 222

<210> 36837

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-H2

<400> 36837

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 ccagactgat gcattgcggt ttgttttcga tagtgagtta tatgtgcgga ggcgcagtc 180
 tgtataactg agacatgatg acctaacaag cagctcgtat ctgtttttta tacataatgc 240
 ctactatgga 250

<210> 36838
 <211> 298
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-H5

<400> 36838

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 agctagagat gatcttgctt taattttgtg ctgatctctt cctcgtcgtg tacgctcata 180
 tgcattggggc gacggatttg tctctgatcg ttcccatgcc gcctcttgta tcttgacttg 240
 gatctatata tcaatgcaaa taaatcatcg atgggtgaca atcgatccaa gcttcctc 298

<210> 36839
 <211> 359
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-041-Q1-K1-H6

<400> 36839

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 gatgtcgtcg gtgttcaacg gcgatgagac ggcccccttc ttcggcttcc tcggcgccgg 120
 cggcggcctc gtcttctcat gcatggggcg cgcgtacggg accgcgaaga gcggcgctcg 180
 cgtggcgctcg atgggtgtga tgcggccgga gctcgtcatg aagtccatcg tgcccggtgt 240
 catggctggt gtgctcggtt tctacgggct catcatcgcc gtcacatca gcacggggat 300
 caaccccaag gccaagccct tactacctct tgatggctac gccacacctt cgtncgggc 359

<210> 36840
 <211> 428
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 36840

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tcggcttaag cttcaagatg aagtccttgt ttcggacact gatagattga gcatgactca 180
ctctaattgt aaaaagctgc aaaggcattt ccaagctgac acgtatcctt ggatccagcg 240
attgaagcaa caagagctgg ctattcagag acgtctttta aggtttgtta gaatagtgga 300
ggcattggag aatcggggct accgctgtcc tttaacaaag gaggaagctg acttgatatga 360
aagattgggt gctatattaa agcggctaen aggacataac gctgatcttt ctaagagggt 420
caatacac 428
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<210> 36841
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-H9

<400> 36841

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agctcgtcat cgtcggcgat ggtggaactg gtaaaactac atttgtgaag aggcatctca 180
ctggagagtt tgagaagaaa tatgaaccaa ccattggtgt ggaagtccat ccgttggatt 240
tcaccactaa cttgggtaag atcaagttct actgctggga taccggaagg caagagaagt 300
ttggtggcct caaggatgga tactatatcc atggccagtg tgcgatcatc aatgttgatg 360
taacctcaag gcttacttac aagaatgttc ctacgtggca tatggacctg tgcagggtct 420
gtgaaaaca 429
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<210> 36842

<211> 274
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-042-Q1-K1-A1

 <400> 36842

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 cagcggcccc gccatcatcc tcggcagctt ccagcagcag aactacctgg tggagtacga 180
 cctggagaag gagaggctgg ggttccgacg gcagtcatgc acgtcgtcgc cgtcgtgagg 240
 gctcacgacg tcagcatggc ggggatcgga gtgg 274

<210> 36843
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-042-Q1-K1-A10

 <400> 36843

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 gttcttacc aagaaacact gatcatctgg ggcgacaaag accaggtgtt ccccgctgac 120
 ctcgccaca ggctgcacag gcttctgggc gagaggcca ggctagagat cgtcaggac 180
 gcagggcacg cgctgcagct ggagggcgcc gaccacgtca accgctccat caagtcgttc 240
 ctctggacg agcgggtcgg gccgggagcc ggcggggcc gcaagtagga cgaggccttc 300
 tcccgccag gccacaagc aaacggaggc ctgctcgcag gtgcctgcgt tgcagagctt 360
 caacagtgcg aacg 374

<210> 36844
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-042-Q1-K1-A11

 <400> 36844

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cctcccctag ccgccgccgc cgctcgtctc cctgagaggt gccgggaccg aggatttggc 120
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gtggtgaagg ggagaaattc gtgagatctg ttccggatca ggcgtgcgag ctcggaatc 240
aggggtttca cacatagctt cgtcgatttg aatttgatgt actaatggag tctaaggggtg 300
gcaaaaagtc tagcagtagt cgttctatga tgtatgaagc tccccttggc tacagcattg 360
aggacgttcg acctgccgga ggcgtgaaga ag 392

<210> 36845
<211> 118
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A12

<400> 36845
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ttcacaaact ttgttggtt cactgctgat ttttttaata attaggcatt tcagtggg 118

<210> 36846
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A2

<400> 36846
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ttcggagcac tcagccatgg ccattgccgg cgctctcctc ctctgctcg gactcctcgc 180
gcgggaggcc gctgccggcg ggtggcagag cgcgcacgcc acgttctacg gcggcgggga 240
cgcgctccggc acaatgggcy gcgcttgccg gtacggcaac ctgtacagca cggggtacgg 300
cacgagcacg gcggcgctga gcacggcgct gttcaacgac ggcgcggcgt gcgggtcctg 360
ctacgagctg cggtgcg 377

<210> 36847
<211> 110
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A3

<400> 36847

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gatgtacctg ctatgcatac atcgttttaa taaatggcac cattgctctc 110

<210> 36848

<211> 384

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-041-Q1-K1-G6

<400> 36848

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cgctgggtgc accatcttct gtctaccacc gacgggtccg gggttcctga aatctgaaga 180
tatgggagtg gtagatatcg ccggagctgt tgccttgcca cgtncatttg gttgatcctg 240
ctgggcggtg cccactccgt ccacctgta cagtagatgc aagtcctctc agtttttttg 300
ggggaagggg ggtggatatc tgatttctgg accaagaaca atgtanattt gccgcgggtc 360
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<210> 36849

<211> 142

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A4

<400> 36849

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ccatgaacac tcagacctaa cc 142

<210> 36850

<211> 377

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-042-Q1-K1-A5

 <400> 36850

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 ccatcctcct cggcagcttc cagcagcaga actacctggt ggagtacgac ctggagaagg 180
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 ctccaaattc caattccaaa agctggctgc ttgatctttt gtagtgctc gtgtactgct 360
 aataaaaaac taaattt 377

<210> 36851
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-041-Q1-K1-F1

 <400> 36851

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 agattgagaa cctacagagc catgacaaca ctgagatata tgagaaggct gtcaagatgc 360
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<210> 36852
 <211> 109
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-041-Q1-K1-F10

<400> 36852

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gacccacaag agcaatgctg acttcaagcg tttccagggtg aagttcaag 109

<210> 36853

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F11

<400> 36853

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atcgccatcg agaacatcca ctgggagatg tactcgtgct tgctcgagac ctacatccgc 180

gacgacgtcg agaaggaccg cctcttcgcc gccatcgata cggtgcccgc ggtccggcgc 240

aaggcggact gggccatgct ctggatcgac ggcggggagc gcttcgccga gcgcctcggt 300

gccttcgcct gcgtcgaggg catcttcttc tcgggctcct tctgcgccat cttttgggtg 360

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ggcctgcact gcgatttgc 439

<210> 36854

<211> 240

<212> DNA

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tcagcttgct cttccgtcta cctgactccc gcttcaccct ctccctcacc cttgctcgg 180

aaccagagca tcaaaacgcc aagcatcatc gccagcccga gctgctggtg cagtcaactt 240

<210> 36855

<211> 411

<212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-041-Q1-K1-F2

<400> 36855

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 cgaccgcaag cgcgcctnct ccgacgtga ccccgccgc tctccccgc tcgccgcgtc 240
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 ccgcaagaac gcgctcgccg acgcgcggg ctccggcaag gccgccaagt tcgtcaagg 360
 ggccgtcgac ggcgcgccct acctgcggaa ggtggacctn caggcgtaacg c 411

<210> 36856
 <211> 214
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F3

<400> 36856

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 ctgcaacttc tggaaataat tgttgaaatt tactctgcaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aaacaaaaca aaaaaaaaaa 180
 tagaacagaa actgaacgat gctagaaaaa ataa 214

<210> 36857
 <211> 181
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F4

<400> 36857

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gccgttggtg gtggcaccgc ttctggcctt ggctctcagc tcttcgagtt cctgaatgtt 180
t 181

<210> 36858
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F5

<400> 36858

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tgacctgttc tttcctggaa caggtgatat taaggatata ggagaaaggg aaggaaaata 180
ttatgctatc aacattccac ttaaagatgg gatagatgac actagcttta ctcggttttt 240
taaaacaatt attgccaaag ttgttgagac atatctgcct ggtgctattg ttcttcaatg 300
tggggctgat tcattggcga gggatcggtt aggctgcttc aatctctcca ttgaaggcca 360
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tggtacaca aaggagaatg tagcacggt 449

<210> 36859
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F6

<400> 36859

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gcatttgctc gctgttcaag ctacacatga aacctgtgtt gtattctgta gttcagtatg 180
cagagtttat aaccttgaga tacaagcatt ttatggtaag gacagcatta gttccggtag 240
aactatattc tgtgctagaa cttgctgacg caagtgtaac tgctgatctt gttcattcgg 300
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gctgaatgtg taaagtttgt 380

<210> 36860
<211> 206
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F7

<400> 36860

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ttgctgctga cattaagcag agaggctatg accttcacga cgtgaaggct tatggacaga 180
tgctcgaaga tgctgggttt cataat 206

<210> 36861
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F8

<400> 36861

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cgccaaagta tgatactgga gggaaatttt ggcccgttgt gcacaacaca acgatattct 120
ctctgggtgt tctgcatata attgctattg gagtatttgg gataaagaag cttccccttg 180
cgttcagttt gctacttccc ctaccaacgc tgacccttct gttcaacgaa ttctgccgga 240
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aagaacagag caaacagat atggccgagt tcttcagtaa tcttgtaaca gcttac 356

<210> 36862
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G1

<400> 36862

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tcgccaccaa cggcgtgata acggccgggt ctgacgagtg ggccatctac ggcggtaccg 180
 ggggtgtttgc catggctagg ggcgtcataa ggagaaggta tctcgacgac agggcccgcg 240
 ggaacactga tgagctcaac atggatgtct tctgccggac gtttggtca cagtcacagc 300
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 tatggtgtgg accgggaggg tcggcacagg aca 393

<210> 36863
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G10

<400> 36863

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 ttatatattgt cagtgtagtt aaagttacta gaagatttgc tcttcacatc cttgattggc 180
 tagtggttta tttaccagtt tgtgacattc aaagattcgt ttctgatcat gaaggttatt 240
 tgtgcattaa gaatcttcta aaacttaata cattgattgg ttgatgagta actgattcgc 300
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 aaaaat 366

<210> 36864
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G11

<400> 36864

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 aatatgaatc tacgtatat tcaataatat ttactctct caattaatgt actaccaaact 180
 atcattataa gatcctccta atgttagaag ataccagtct aacctcttgc gttgctcatc 240
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<210> 36865
<211> 453
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-041-Q1-K1-G2

<400> 36865

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aagcgaccaa tatgctgtac tggatatctta tcgctgtaat tacacagaat cgaaactttt 180
tttcaagcaa gcaacaagtt ggcgaccctc tgcagccagc gatcttatga tctcagtatc 240
atccgaactg tctttacgga atcctagtct tgggtgctcg gtctctcaac tccccgtgca 300
gatactaaca ctggaagcta ctaatatgac atccgaaaac cttacattaa ctgtccttgc 360
tctgaagca tctggttctt ctccagtttt atccttgaac tcatctncaa ccaccccaaa 420
tggttctttt gatggtgtta atgagtcac aaa 453

<210> 36866
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G3

<400> 36866

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ataaacaaga aatggaaaga aggttttcat gtgactgcaa tggcaacatc aggcaatcga 180
tggtctatag tcatgtcccg cagtgtgga ttttctgagc aggttgtgga gttggacttc 240
ttgtacccga gcgagggcat ccatagacgc tgggacaatg gcttccgtat tactgcaatg 300
gctgccacga tggatcagtc tgcgctgac ctaagcaagc caaggcgtcg cccaagagac 360
gagacacaag agactctgag gactacacag tttcccagtc aacatgtcaa ggacaagtgg 420
gccagaatc tctaccttgc ttggatatgc tatg 454

<210> 36867
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-041-Q1-K1-E9

 <400> 36867

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 ccatggtggt cgaaaccgac aggctaaagg gctccacgct cgatcatcaac ggaatggtca 180
 cggatgggtc agacgaatgg gcgatctacg gcggaaccgg ggtgttcgcc atggccaccg 240
 gtgtcatgaa gagaagaaac cttgccgccg gtagcaacga cgggaactct gacgagcttg 300
 ccctggaagt tttctgcccc gtgtttggcg catcacagca accaattagc aagcagcagg 360
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<210> 36868
 <211> 260
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-041-Q1-K1-G5

 <400> 36868

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 gatcgaagcc aaaggatgta aatgtgtacc taggattcca tgtgaagggt aacgtgcctg 180
 atatgtaacc tgtaaaaacg tactatcaaa tatataccta atcaggacaa atacctgaaa 240
 acaaacaaaa acatggcata 260

<210> 36869
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-041-Q1-K1-D3

 <400> 36869

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 atcaattgtc tagcaggaaa gtgctgacct eggagtttgt ttccaggcat tcctatcgat 180
 aagggtggctc agttaagtca ggaaacccgc aattatgttg gttgtaaact gcttgagctt 240
 acaataaagg agttgcttgt cttcagattc atgcagacgg atccaaattg gagtaattgt 300
 ctgtatgatg atgctacaag gaaattcaat ctgatagatt ttggagcaga ccgtgatattt 360
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 a 421

<210> 36870
 <211> 256
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-041-Q1-K1-D4
 <400> 36870

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 tcaagtggag ctacagtcca cctactatcg tgtgggttga catgacacaa ttccagggtta 180
 accctgcata tgatgctcag agaataattg cctatgttca aacactgatg tgcgtcacag 240
 acccaaattg tgctgc 256

<210> 36871
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-041-Q1-K1-D6
 <400> 36871

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 ttgagaaaga cctttcttca tgggaaccgg cacatgtag tttggttcaa attaacaaaa 180
 cccctcttga gcaaagcaca atagctggtg aacaaactcc aaaatcagta gttgcaaagt 240

ctttctcaag tagtaatcaa agacatgggt atagttcaac aaaccttgga acaaccatga 300
 tccattctgg cacacaaggg tattatggaa tgcaaaattc ccatgcagca tacacaagcc 360
 aacattctct tact 374

<210> 36872
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-D7

<400> 36872

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 ccaccgtaa cggccccccc ccctcggacc ccaatccgtc cggcggactt ccgccagtc 180
 ccggtacggg gggggccggg gaccctacg gcacaggggc caaggctaca cgccccgac 240
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 cgagagggt tacta 315

<210> 36873
 <211> 162
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-D8

<400> 36873

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 ggaacggtaa agcgagcctt gagcctacta aacaccatac cgcaagacac caccatcaga 120
 ccagtacgag ccgaccaacg tgtgctccta taccgtacat ca 162

<210> 36874
 <211> 234
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-D9

<400> 36874

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 ttacatctaa atccaaccac ctgatctcac tcatattcat ttaacatcat gaccatcatc 180
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<210> 36875
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E1

<400> 36875

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 ggagggacgt acccttgacc cacacattga ggagcaattt ggcagtggac ggttgctggc 180
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 agagcttgag ttctacatga agaagctaca gaggaagaag ggcaagagcg ctgtagctta 300
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 gttagtcgtc tcaagttcag agcgttatgc catgttttca gacctgatta gtacactctt 420
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<210> 36876
 <211> 414
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-041-Q1-K1-E10

<400> 36876

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 ccgcgtggc ggtggccgag ccctcgcgcc gcggcacctt cgccgtggc aggtccgcca 180
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acggacgccg cgccgtcatg ctgcgggctg ctgcggcggc cgtggcagcc atcggcgggcg 300
 ccggcgccgc catggcgggc cccaagaacg ggacccccga ggcgaagaag aagtacggcg 360
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<210> 36877
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E11

<400> 36877

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 gaacaggcgc cagagtggga tccagcagtt gctggctgcg gagcaggagg ctacagaaat 180
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 gagcagcggc gactccggtg caaacgtcaa gcgtctcgag gaagaaacgg cggcgaagat 360
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<210> 36878
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E12

<400> 36878

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 cgcgcgggcag tggcgggaga cgacgaccga tcgatcagct gaaggaatgt cgtcggccca 180
 aatcgtgccg gcggaccatg tgtgctatgt gactgcaac ttctgcaaca cagttctcgc 240
 ggtgagtgtc ccggggaaca gcatgctcag catggtgaca gttcgggtgtg ggcactgcac 300
 aaatctactg tcagtgaatc tgagagcact catgcactca gtcccagaac aggatcagct 360

tcagcaggaa gacatcaggg tccatggcac gttgctgag catcatcagt gtggcgccgg 420
gcaccatctg gagctgggc 439

<210> 36879
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-041-Q1-K1-E2

<400> 36879

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gctcagcgtc gagtgcgccg accagggcgt gctcctcacg tncatcaagt ctggcagcta 180
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gctcgtncgg ncgagctgca cctaccgga cggggcacc acggagatgg tgcgggtggg 360
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ngtggagcgc gaggggcacc gcgtncacgc 450

<210> 36880
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E3

<400> 36880

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taagaagaag agattgcagt agcatcctgc tgcggcgata acagctcttg actcccgga 180
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agataccctg tagggttgta atttgtagga ttaggaaca agagcaacta atgctcagct 360
gacagactgc tgcgagatag aaattgtatc tcaagag 397

<210> 36881
 <211> 264
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-041-Q1-K1-E4

 <400> 36881

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 aaaacattga ttggggagaac attagtacat gaatacttga tcttcatagg tcagctttca 180
 tgcattgtgca cacatggaaa atacatagtc ttagggctag cttatttatg cggttatgta 240
 ccacgatgat gttgaatcat tagt 264

<210> 36882
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-041-Q1-K1-E5

 <400> 36882

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 cgcgtacggt ggggccgggg acgcctacgg ccacagcggc caaggctacg cgcccccgcc 180
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<210> 36883
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-041-Q1-K1-E6

 <400> 36883

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gctacaata ctgctcatg agattaaagg tttcttttgc aagtacaatg accctatata 360
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<210> 36884
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<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-041-Q1-K1-E8
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gcaagattgc ttattattat tacttaccac gactttatta tatgattaca gt 352

<210> 36885
<211> 390
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-041-Q1-K1-D12
<400> 36885

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<210> 36886
 <211> 160
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B3

<400> 36886

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<210> 36887
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B4

<400> 36887

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 aaatatccgg tcctgtatc cgtatccgtc ccgtttctaa ctatccgtat ccgateccga 180
 atccgtttta aatacattag ggtaggatac gagatgagct actatccgtc ccgtatccgc 240
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<210> 36888
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B5

<400> 36888

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cattctgcca tggaaactga agtaacagaa ttaacagaac agcataatga aaacaaagcg 180

acagaggag caagcaaaag aagcggacga aagaaggcgt catcatcctt ggcgacgata 240

ctatctgatg ttgatgatga agtcctagag gtccaagctc agaagaaag 289

<210> 36889

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B6

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cggatcccg cgtctgccgtg tctgtgcgaa cctcatgga ctgatcagga agtacgggct 120

gatgtgctgc aagcagtgtt ttcgcagcaa tgccaagac attggcttca tcaagtaccg 180

ctgaaatcag gtgggaatgg accatgttgt agaagcgaag ttgtagtttt atttccagta 240

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<210> 36890

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B7

<400> 36890

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tactgtcctt caatctacaa tttcgttaact atgccaacca cattgtcttc aaacaaaacc 180

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<210> 36891
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-041-Q1-K1-C10

<400> 36891

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tgaccgtcag aaggacctaa cattcatccc acttgcccca gcttgtgttg taattcgtgt 180
attgacccca gtatatgcta cctccttcc tgctggccct tttatctgga gaatattctg 240
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<210> 36892
 <211> 385
 <212> DNA
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<223> Clone ID: LIB3069-041-Q1-K1-C11

<400> 36892

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gcatccacga ggagacgctg ctgcgcgtcc cgggcgcgtc cgtgcacctc ctggccgggt 180
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acgacgtggc cgtggccacc gcggtgcgcg tcggcagggc cctgggctgg ccgctggcgc 300
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<213> Zea mays

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tcatttcacc aaactcacct tctgaaacct gtacatccgc cgggccgggc cgtgcagcag 240

ggagataacc gaggagggca ggtgcgacct ggacaggaga tacttgagta acttctcccg 300

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<400> 36894

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tgtttcacca cattaactgc attgcttgaa agatgcctgt catccaaaag aaactgcata 180

tctgacactc attgatcgac ttgacct 206

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<211> 348

<212> DNA

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gctgctcgat ccggtagtgg cagtggcttt gtgagacagt cgagtcgatt gtggtttccc 180

ctcctccgcc atgtgcgtgt agtggatgat gatgcaggaa taaacggtgt ccttgatcc 240

agaactcacg gttcgatcca tccagtttat ctcatgcttg tgtatctcta tgtatgcatt 300
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<223> unsure at all n locations
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gcgaggagtc gacgggaaga caagggtag gatcagaagg atacggtgcc actgcttatg 180
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acaacactac tncgcaggga agctttacag tggctcaaga tatcatgagg acgatgctag 420
aaaaggggta cgtgctcagc aaggatgctt tggc 454

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<212> DNA
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gaggctactg gtgacaaatc aattaatcta aagggtata tggttaagaaa tgctctcact 360
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<211> 288
<212> DNA
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cacacggagg aaaagtacat acctaaggca cttaattgca atggcatcgt actatttact 180
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ttatgaacta caacttgtag acagatgatg atatgcccta catacata 288

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tgctacatcg aatctaaatt ccacttcaca tttgcacatt catgctctac ttctattaca 180
accggtatga tccatccatt acactactat gttctttact gcatctacta atcttcatcc 240
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cgtgtacgac atggtgaaca gccccagcag ctaccggttc agcaccaacc tcatggcctg 240
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<223> Clone ID: LIB3069-041-Q1-K1-B2

<400> 36901

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acacatttgc agagattgat ttgggtgatg cattgaatga caatatccgg aggtgcaagt 240
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tcatggcctg cgcacagact ggatccggaa aaaccgccgc attctgtttt ccaatcatca 360
gtgggatctt gaagtcacca aagccacacc agaggtcacg gagtacaagg accgcttgcc 420
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<210> 36902
<211> 71
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<223> Clone ID: LIB3069-041-Q1-K1-D10

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<212> DNA
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 gccgagctca tctcacctt cctcttcgtc ttgcgcggcg ttggctccgc catggcaaca 180
 gggaagctgg ccggcggcgg cggggacacg gtagtgggccc tgacggcggg ggcgctggcg 240
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 <211> 419
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 gaggccatcg ggaagccagg cttggtggag atcaccgccca aggaggacag ctctgtcttc 180
 accgtagaaa caaccggcgc catcacagcc tacgagctga tcatgaacgc gatcacggtc 240
 ctgaggcaga aactggatgc cgtcccgtt caagaagacg acggcgacct tggcgagctc 300
 ggcgccacc ttggtgggccc ttaggagctt tgagcaagaa ggaatcgccc tgtggccttn 360
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<210> 36905
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-041-Q1-K1-A1

 <400> 36905

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gaccccgcca acgtacaccc ctctgcaaaa gcctccgaca cccaagccga ccccgccgac 180
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ccccaagcct accacacacc cgacgccccaa gccgacccca tcgacgtaca ccccttcccc 300
aaagcctacg acgccaagc cgaccccacc gacgtacaca cctttcccaa agcctgcgac 360
accaagccg accccaacga cgtacac 387

<210> 36906
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<223> unsure at all n locations
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tcgcgctcga cgctaccgc ggcaccaagc gcctgcccc a tacctcaag ctgcagccgc 180
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tcgcgcacat ctncacaag tacgcgaagc anggcaacc gtacctgatt ggcacgggcg 300
cgctggagcg ggcgtncatc gagcagtggc tgcagaccga ggcgcanagc ttcgacgcgc 360
ccagcgccga gatggtctac agcctcgctt tctgcccnc caccctgccc aggcagaacg 420
acaacggcaa cgg 433

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<211> 426
<212> DNA
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<223> Clone ID: LIB3069-041-Q1-K1-A12

<400> 36907

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gcgctggacc gggcgtaacat cgagcagtag ctgcagactg aggcgcacag cttctacgca 360
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gacaac 426

<210> 36908
<211> 171
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<223> Clone ID: LIB3069-041-Q1-K1-A2

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<212> DNA
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<223> Clone ID: LIB3069-041-Q1-K1-A3

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ctaaatccgt tctggatgac gagaaaatct ctgaatccaa gaatgggaac gcctgcttag 240
ccacggagcc aattaagcaa gaggacgaga cctcagacgt atttgtggat gcaatgatgt 300
ccctttctga tgaccatgaa atc 323

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<212> DNA
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 <223> Clone ID: LIB3069-041-Q1-K1-A4

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 gcctccggcg gtggcggggg tctcctcgcg ggcggttccg gaggtggggg cgcgccgggt 180
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 ggctcatctg ccattgcac aaacatcaag caccatgcag agttcgctcc cttgggtctc 360
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 gcgtccggcg ccacggcggg cgacgacagc ggattcacga cttcaagggt gttcttccac 180
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 <212> DNA
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 <400> 36912

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 ccgggtcggg atgagggggcc gccattgcga gcgacgtgcc cattgacccg gagctcgagc 180
 agatcgactg cgagatccac gatatctttc gggcccttca aaatggattt caaaagattg 240
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 aaactatgtg gggaatTTTTT caaattaccc aaatcttgct tagcaacaaa cgccaaaagt 180
 tatggtgatt gcttgggctg actccagaat ctgccctacc gctgtttggg ggttcagcct 240
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 tcagagacta gtgcagcact agagtttgct atcaatacac tcgaggtaga gaatgtgctt 360
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<223> Clone ID: LIB3069-041-Q1-K1-A8

<400> 36914

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<223> unsure at all n locations

<223> Clone ID: LIB3069-041-Q1-K1-A9

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cgttcgacga cacgaagctg ggggtgaaag gcctgggtga ctccggcgctc aagtccatcc 180
cgtccatctt ccaccacccg ccggaagccc tgagcgacat aattttctccg gcgccgcctc 240
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<210> 36916

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B1

<400> 36916

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<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B10

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gtacgccaac gtggttccca agaccgttga gaacttcac gcgctgtgca cgctctagaa 180

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<210> 36918

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B11

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tgccgcccta gttggtgggg tagcggcatt tgcgaagatc ggtggggcga tgaaagccgc 240

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gattggtcga caagtatgaa atgcctctc cagaggttta gaagagagag ggtgccatag 420

tcaataagtt acaggagtaa attttga 447

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cgccttctgt gctgagattg ttgagtcgc agatgcctac ctctttgcag gccccatttt 240

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ccagcctgag cgtgtgatag tggggaatgg gccggcattc ggatgtgtga tgatgaaaga 360
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<212> DNA
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<223> Clone ID: LIB3069-041-Q1-K1-B12

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<210> 36921
<211> 359
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acgacatgtt gggcgggcgg ccgacagccc ggcactaagg acgacgacat cgacgacgac 240
ggaagccttg ggcattgtca tgtccagcat gatgcagcat gcccagatc cagaagaagg 300
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<211> 287
 <212> DNA
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 <223> Clone ID: LIB3069-040-Q1-K1-G2

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 gataaccaac atctagtatc acctgaggcc atagattttc tcgataagct cctgcgctat 240
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<210> 36923
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 <212> DNA
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 <223> Clone ID: LIB3069-040-Q1-K1-G3

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 gaacccttac aaccccgaca tcctcaacga cctcgagaag ttcgtcaatg agcaggtctc 180
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 agaaaggatg agcatacaga ttgtggccca catactgatt aaggctctca tggcaatgcc 300
 agcccctgac ttcagtttgt gcttattctt aatccctgaa catgtgcaaa tggaggagca 360
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<210> 36924
 <211> 387
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 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-040-Q1-K1-G4

 <400> 36924

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caacttgaag ctcttgttgg aaggcatagt agaaaaccct ggtcaaagtt catgaatgct 180
gataaccaac atctagtatc acctgaggcc atagattttc tcgataagct cctgcgctat 240
gatcaccaag ataggctcac tgcacgtgaa gctatggcac atnccactt nctncaagtc 300
agagctgtgg agaacagtag aacgagaccc acataatcgn tgtctacacc ctcgaaatga 360
aaagtgtgct aatttctgga acatcat 387

<210> 36925
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G5

<400> 36925

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ttggccattt tccccttctt cttttggggc cgccgttcca atgccgcaca ccgccgttaa 180
cacaccgttc 190

<210> 36926
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G6

<400> 36926

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cgggcaatgt ggggcaagtg aaggacggga atctggagcg ggcgctgtcg atcatggagc 180
gcaagatgcg gtccagcggc atggagcgcc tcatacgggc gcgcacccat taccacgtca 240
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<210> 36927
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G7

<400> 36927

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gcagggccct gtccttcgcc atcgccgact tttcgtcac cggtcacctt cgccttcgc 180
ccgagctgct catccagccg catccgcacc acgacctcgt cgcctttccc tctctccctc 240
aactcgtgag ccgtttgcaa agtgaaggat attatggagg cgtccggctg ctgatggcta 300
tctgtaaagt tttctacaac tattgtgttc aaaataacat cagtttaaaa gctgaaaatt 360
tcaccttatt atacgatact aatattcctc ggcagtctgg gctgtctggt tcgagcgc 418

<210> 36928
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G8

<400> 36928

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cttgaggaag aggcctaaaa agaagaacgg acagatgaat gaaggaaaca agtgtgtaat 120
gttgatcagg cggaggaata atgggtcaac tgacaactct gggtcggtgg attttagtatt 180
ggtttggggt ttttagttgt agaacggtgt tgccccctc ctagagaggg atgaacacat 240
tatgcatgcg atgtgtcagt tcggtcgggt ctatgctcgt tgggatttga ttgtcggaaa 300
ttaaacatgg gtgatgaatg tgtaccctcc ctaaaaaata aagtcctaaa atgaaaa 357

<210> 36929
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-040-Q1-K1-G9

<400> 36929

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aagccccctc ctccggccgtg gccggcgccgg tggcccgatg tgctacttcc cggacggcac 180

tcttcagggc atacagggag ccaggcatgc tcaattcggc atatccttat cagatctcca 240

cctgaacaag ctgcagccgg gcctgtcacc gcacgggctc caccgncagc tgcaccacgg 300

cgtgcaggtg caggtgcagc agccgaggat cgcgcncggg ctcatcgteg gcggccaccc 360

ggcggcccca gacgacgtct cgt 383

<210> 36930

<211> 383

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H1

<400> 36930

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aagcacaagg tgattgttct gtgagcacia ggtaatcaat ttgggaggag aggaatataa 180

tggcgagca cagtacatac ttttgggtttt tcccttctag tatatatatta cacacacgta 240

tacataaata catacatact atatgatgga cttgtcatta gacagcctat gtgaaagctg 300

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atatatggtg atactttttg ttc 383

<210> 36931

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 36931

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aaataaagaa tatgaactca ttttctgcga taaatagggc aatcgattat gagatctccc 120

ggcagattct gctccataaa gaaggccagg ctgatcaaat tgtacaagaa accgcctgt 180
 gggatgaatc ttctcagaaa actttttacaa tgcgaaaaaa ggagggactt gcgactata 240
 gatattttcc agaacctgat ctctctgaag tagttatcac tagtgactat attaataaaa 300
 tcagcaagtc aatgccggag ctccagaag caaagcgtag gcgttatgag aatatgggac 360
 tcagcatgca agatgttctg ntccctgcta atgatgataa tattgggtcat ttctttgatt 420
 ctactct 427

<210> 36932
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H11

<400> 36932

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 aaacccgact gtgggatgaa tcttctcaga aaacttttac aatgcgaaaa aatgatggac 180
 ttgccgacta tagatatttt ccagaacctg atcttctga agtagttatc actagtact 240
 atattaatga aatcagcaag tcaatgccgg agcttcaga agcaaagcgt atgcgttatg 300
 agaatatggg acttagcatg caagatgttc tgttcttgc taatgatgat aatattggtc 360
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<210> 36933
 <211> 293
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H2

<400> 36933

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 catcacaatg ggacctctgt ctccgtcag gggatccct tcgccagcat tctacaattc 180
 tgctgcgtca ctgctgatgc tgtccaagtc gctcttctg tactgtgaa cacagacct 240

tacttgcgcg gatacatgct ctctgaggga tttttcatta gacaggccct gtg 293

<210> 36934

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H3

<400> 36934

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gcttcttctc cggcgaaggc ggagctcggt acggggattc cgcacccgtt aatcgggtccc 120
accggatccc tcgccgcctc ccacggggccg ggccgcgcgc tggcgcgcgc gcaggccgag 180
atgcggaaga ggatggagag cgtcgacgat ctgatcgagg aggcaaagct gcgcaccgtc 240
tgggtgggcgc tctgcatctt cgccgtcttc tacttctca cgcatacaag taaatcaatg 300
tggacaaatg tgcccatgtc aatccttata cttgcatttc tgcgatatct ctcccttcaaa 360
ggggagttcc cgtggaggga acaccctgta cgtaagcaga cacatttgtc ttaagcctta 420
aagaga 426

<210> 36935

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H4

<400> 36935

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tagctagcta gtttaggaaa gagaaatctg accacaggga tgcggtggcg gctgcagccg 120
gcgcgggcgc cggcgcgtgt cctcgtctctg gccaccatcg ccgccgtcgt ggtggtgcga 180
gcggagcccc aggtgccgtg ctacttcgtg ttccggggact ccctcgtgga caacggcaac 240
aacaacgaca tcgcgtcgct ggccggggcc aactaccgc cctacggcat cgacttcgcc 300
gccggcccca ccggccgttt cagcaatggc ctcaccaccg tcgacgtat atctcggtt 360
ctgggcttcg acgattacat ccccgctat gctggcgcga g 401

<210> 36936
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-040-Q1-K1-H5

 <400> 36936

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 cattttctcaa aatgactctg gggcctcttt ttcaaaaact tttccctcct tcttcctact 120
 gtcaccgttc cgcaacaagc acaaagtgat tggtctgtga gcacaaggta attaatttgg 180
 gaagagaaga atattatggc gcaacacaat tcatactttt gggttttccc ttttagaata 240
 tatttacaca cacttttctt taattccttc cttcctatct tagatgacct tgcctttaac 300
 caccattttt aaagcttttt ttgccaat gattggtggt tggccctttg ggtttggacc 360
 ctaactatct ggggtgatat atattgggaa actttttggt cc 402

<210> 36937
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-040-Q1-K1-G11

 <400> 36937

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 tcaagattgg tccactagca gaattgatgg acggagaagt aacattagag gctggtgcta 180
 atgttaggaa gatacgagtc tgacgtcttg agttgctcat caaacagtga ccgactaaag 240
 ggagcttttag attcaaggag aagctctggt catactgatg aagtaaagaa agaactggag 300
 acgtacaaag aagttcccat ccagactaca aaagaaccaa caattgacga ccagcgactg 360
 gaaagtgcac ggcttcagggt tactgagaag cacacacctt gtctggtgga tcaggcacta 420
 cactatcaac a 431

<210> 36938
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E4

<400> 36938

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ctctgcctga gtttgcagga ggcagagaag catctttcag acatggtgaa ctcaaatct 180
ctgactgcga agatcgacag gccgatggga gttgtgagct tccgagtagt tcaggactgc 240
aacggcacac ttaactcgtg ggctacaaac ctgc 274

<210> 36939

<211> 221

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E6

<400> 36939

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gcgcgccaa gacgttctac gaccggcaa agcgccgccg cgtgctgtgg ggatgggtcg 120
gcgagacaga ctggagcgc gcggacgtgt ccaagggatg ggcgtcgtg caggggtatac 180
cccggacggt gctactggac accaagaccg ggtagcaacc t 221

<210> 36940

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E7

<400> 36940

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gcgcgttcaa gacgttctac gaccggcaa atcgctccg cgtgctgtgg ggatgggtct 120
tcgagacaga ctgtagcgc tcggacgtgt ccaatgtatg ggcgtcgtg caggggtatcc 180
ctggacggt gctactggac accatgacgg gtatcaacct gcttcagtgg cccgtatacg 240
atgttgagac tctgagcacc agctgcacc 269

<210> 36941
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E9

<400> 36941

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gcggaacagc ctgcgttgct cgcccacacg acgccacgca tgcaggagga gccagggcgt 120
cgtcccgtgc cgccgttcgc gggcgtggac ctccgccgcc ccaagggcta ccccggtggc 180
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ggacaccaag ttctgtact acaacaacta caacacgtcg cagccgcgcc acttgtgcaa 300
gtcgtgccgc cgctactgga ccaagggcgg gtccctccgc aacgtccccg tcgggggcgg 360
caccgcgaag agcagcagca gctcctcatc atcctcggcg gcggcggcgg cgacgacgac 420
gacgacgt 428

<210> 36942
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F1

<400> 36942

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gggttgttca atttattgag tcatgcacct tggattatat tggctgagaa tgatttgtat 180
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tgagtgttat tttggaca 438

<210> 36943
<211> 295

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F10

<400> 36943

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 gcccttctga ggtacaatgc cctatttgct tggaaagacc attgtgcca cagatcacat 180
 catgcggaacc catatattgc tttccatgca ttttacgtta tctaattgatg ggcaaagatg 240
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<210> 36944
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F11

<400> 36944

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 gccaaagacca atcgaccatg gctacccgga tccagtttga gaacaactgt gaaattggtg 180
 ttatctccaa gctgacaaat gcttactgtc tggtagcgat tggagggtca gagaacttct 240
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 gcactagaat cataggccga ctttgtgttg gaaacaagaa tggacttcta ttgccacata 360
 ctacaaccga ccaagagctt cagcatctga ggaattgctt gcctgatcaa gtggtggttc 420
 agcgcattga t 431

<210> 36945
 <211> 234
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F12

<400> 36945

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aagtctgggg cggtatacaa gggctacaac tttgcatcca cttgggaaca gagcgcgccg 180
ctcacggagc agcagaaggc cgcgatcgcc gcgctctccc acgccgtggc agag 234

<210> 36946
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F2

<400> 36946

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cgattcgacg atccggcggc ggtgaggcgc ccccgccagc atgaacggaa gccgcccgtat 180
atgttgcttc tcccgtcgt ctacgcccc gtcctcccc tcatcaggat cgggctgcgg 240
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ggcgctacc tcatatc 317

<210> 36947
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F3

<400> 36947

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gggatctgaa agatgctgac ttctacaagc agcaagcaaa actgttggtc aagaacttgt 180
ccagagggca gcatgaggcg tcaaggatgt caattgagac aggaccatac cttttccagt 240
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atatgtgatt cttcatcatg atcctaaatt agagtttttg tgaactggca agtttaggca 360
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<210> 36948
 <211> 426
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-040-Q1-K1-F4

<400> 36948

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caaagtaact ggtggcgcac cctttttatc acaaacattg gcattggagg attcaacaat 360
agtgaaagtt gaaatttggg atactgctgg gcaagaaaag tatgctgcct tggcgccact 420
ttacta 426
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<210> 36949
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F5

<400> 36949

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agctttgaag gttggcatga aacgtccagg atacaatgca agtgactcgg actccgatga 180
tgccaaccaa tgacagtcag ttacaaattg agttattatt agttaggaga ttcacatggt 240
aagaaagttt ggtataagct gttgctcacc ttttcatgat ttctaattatt cccctaacct 300
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tcaactgtcac actgagcttg tgggtgattag 390
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<210> 36950
 <211> 416
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F6

<400> 36950

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ttgtctgatg gagataatct ttagtcggcc atctgaagat agaactattc cattaagtgt 180
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gggtccagccc agagtgcctg gaatcccaca agttaagct ttgcgcgacc gcctggatgc 360
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<210> 36951

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F7

<400> 36951

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gttggtgggtc catgagacac gacaacgaac ggcttggcga tgggtgtgctt ggtagggctt 180
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<210> 36952

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-F8

<400> 36952

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tactgacgct gcgaggagtg cttccgatat tgtccttact gagccaggtc ttagcgatcat 180

tatcagcgcc gtcctcacca gcagatgcat cttccagagg atgaagaact acaccatcta 240

tgcagtttcc atcacaatcc gtatagtgtg tggatttatg ctcattgcgt tgatctggga 300

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<210> 36953

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<212> DNA

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<223> Clone ID: LIB3069-040-Q1-K1-E3

<400> 36953

aaaaaatctt gacactttat agtacagtca acagtcatta taaagggaat aagcatacaa 60

gccttagtca tcaaacctat ttctttatct cgtagctgca tccaccaact tatagtgaag 120

tatcttaatc caccaaagat atttttcctt attgggtccac atatgaacat agcagtgagg 180

tccatataca tttccaacat ttgtgtcact gaaattcata aataagaata taaagaggaa 240

atacaatatt taccaaagaa gagtttggtg tcacttttag actggagtat ccgagcttgc 300

agggtcttgt tctgaaaaaa ttataactag cttatcatga tccaaaactg tagtttttaa 360

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<210> 36954

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G10

<400> 36954

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catcctagtg tactcagaaa gtgtcaccca acccttcagg ccttaaaaag ttgtcagtgg 120

aaaatgtcag gactagagct agggttgggt aatctgaac 159

<210> 36955
<211> 321
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-C3

<400> 36955

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gtcctccgat cgactacgta ctcccacca ctccggcagc agcgaggcct ctctgtctgt 120
gcgcggcggtg gctgtcgctg atctctgcct ggcgggcggc cggcatgggg aggtccccgt 180
gctgcgagca ggcgcacacc aacaagggcg cgtggaccaa ggaggaggac cagcgcctcg 240
tcgcctacat caaggccac ggcgagggtg gctggagatc gctacaaaaa gccgcaggtc 300
tgctgcgctg cgggaagagc t 321

<210> 36956
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C4

<400> 36956

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ctcttgctgc ggctgtggc agcagaccg cgtcgagatc attgccaacg accagggtaa 180
ccgcaccacg cctcgtacg tcgccttcac cgactccgag cgctcatcg gagatgcggc 240
caagaaccag gtcggcatga accccatcaa caccgtcttt gatgccaagc gtctcatcgg 300
caggaagttc aatgatgcg 319

<210> 36957
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C5

<400> 36957

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aagatcggac ggagggagta gaatcgcggg gggcgtggct gtggttgcca gtcgccatgc 180
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tctcaggaag ctccatgcgg gtgag 325

<210> 36958
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C6

<400> 36958

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ccccgcgctc ctcaagacc tagctccagc cggcgcgcgc ggcctctcca ccgagaaggc 120
tgttggtgca gccgccgtcg tcggcagcca caccgctaag tggatgcagg acacgagcaa 180
gaagtcgcca atggaactga tcaacgaggt accttcgatc aaggttgatg gtcgcattgc 240
cgtctgtgaa ggggc 255

<210> 36959
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C7

<400> 36959

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gagttcctcg gcacctttgc gagcaccgtc cactcggct ggcagctgtg gctggtgagc 120
gtcggcctcg gatccgtcag cttgctcgtc ggcgccgtcc tcaagtgcgt tccagttgaa 180
ccggacgatg gagttcgcgc cagtccaaat ggctacgcgc cgtgcccgg cggccctgac 240
aacatataac agctgaacct gagcggccga gaaggtactg acgacgtgct gatttttttc 300
gcgttagggg tcataac 317

<210> 36960
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C8

<400> 36960

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aagatcctcg acacctttgc gagcacgta ccactcggct ggcagctaga gctggaagag 120
cgtcagcctc ggatccgtca gcttgctcgt cggcgccgtc ctcaagtgcg ttccaaatga 180
accggacgat ggagttcgcg ccagtcctaaa tggctacgcg ccgctgaccg ggggccctga 240
caacatataa cagctgaacc tgagcggacg acaaggtagt gacgacgtgc tgattttttt 300
cgcgttaggg gtcataacag attatattat gtaaaaagag atggtggtga cgacaaggca 360
cctctatttt gatgggtcat acttagaagt ggtaatagcc tctagatttt acgctacaaa 420
ctttaaagat cgaaa 435

<210> 36961
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-C9

<400> 36961

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ggcctcagaa taccatggag atacctacca cctcatttcc aagaactgta accactttac 180
agatgatctt agcaccagat taacaggaaa atcaattcct ggttgggtca atcgacttgc 240
aaggctaggc gccttttgca actgccttct accagaaggc ttgcggcttg agtcaactga 300
aaciaagcat cttggagact gtcgtttctc agatggttcc aataccacca gcaacgataa 360
ctctgacgaa gatgaattgg aagaaaaaca cctgcttccg actact 406

<210> 36962
<211> 336

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-040-Q1-K1-D12

 <400> 36962

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 ggacctgggg gttggcataa tcgatttcct gcggcagtc accctgggaca agcagctgga 120
 gacatgggtg aaggcctcgg ggatccttagg gggccccaag aatgagtctc ccaccgtgat 180
 ttcttcaatc cagtacaaaa agaggttcan gaaggccatg tcgaggtact ttctcgnctg 240
 ncctgaccaa tggacctcga aaggcgggta aatcttctcg ctgnttttta gctgcatctt 300
 ttttgtcagc gaaagcttca ctcgttcac cttggc 336

<210> 36963
 <211> 166
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-040-Q1-K1-D2

 <400> 36963

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 ggaccttaat tggcctttaa tttggcctat caaggatgat gaagatgaaa cttcttataa 120
 aactgacacc accgaagttt aattattttg aggttcttac actaca 166

<210> 36964
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-040-Q1-K1-D3

 <400> 36964

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 tgaacaatcc gcgtgatttc agaatgacaa cgattcgggt tcagtaggca tttgtcaaag 180
 caacacgcga agaagtatat atgaactctg cggttaagctg cagagtttca aagtttccag 240

cgccgtataa ggaagctacg tagctatggg tgcaccttgt ccgaagcctg tggacagcac 300
gagccgatct gcagtcgcgc tgctcacgaa catagagaac acaactgct 349

<210> 36965
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-D5

<400> 36965

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gcggcgccgg ctgaggcgcc tgggtggccgc ggtggcggcc gggagcgccg acgccgaggc 120
cttcgacgag gctgcagagg cgctcgccaa gctcagggac gccgagcttg gcccccgcaa 180
ggacaggacc ggcgacggcc gggagaacaa gcgcagcacg gaggccgccc tgccggagca 240
cttcctttgc cccatctcct cagagatcat gagggatccc gtcgtcctcg ccttcggcca 300
gacgtatgat cgtcgtttca ttcaagaatg gttaagcgtt ggaaaccgga catgcncaca 360
gactcaacaa gtcctttcga aacacattat caccgccaac caccttgtga gaagcatgat 420
ctcacagtgg tgcacagaca acgg 444

<210> 36966
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-D7

<400> 36966

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cctgctgcag cattgattac gtgctctagc tgctagctat gcggtccgtg aaaaagaaag 180
ggggcacagc ggatagtact ggagaatgtg aatcggttcg gttggctgca ggacggatcc 240
gatttcactt cacccatctt 260

<210> 36967
<211> 264

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-D8

<400> 36967

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 gctccaagca gcaagcgatg aatggaggga cgcaagcaat tagcctgatg gtgcaccttg 120
 ctgtgccatg gctctgcctt gcttcttggg cagctctgct accagcgcta ctagcatctg 180
 gaaatgtggg tgcagcagct tcgacactga gagcagagta catgaatttg aacttcagca 240
 ccgcttcggc aaaccccgac aagt 264

<210> 36968
 <211> 247
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-D9

<400> 36968

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 gtacatttgg atactattac cccacaccat cctctactat tacacctcca tattacgata 120
 catcatacaa ccatctatac aagacactcc ttttcgttcc acatcctaca ataacatcct 180
 atccctatct ttctacatcc ccctctaact ctctctcttc aacctcttct ccatcatgct 240
 tacccaa 247

<210> 36969
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E10

<400> 36969

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 agcttgcaga gcacttgatt ttacagcacc aagtgcata tgcacgacca ctagatttct 120
 agctgctcta tcaatgggca aacacttgat ctctgaagag cactcgatct gtacggcatg 180
 gcacattgga gtacaacatt gaaatgctct gaaacaatga tggtccttca gaaataacta 240

gcaccgatgg

250

<210> 36970
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-E11

<400> 36970

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accccaggca cgacgcccac gctagcactc aacctgcagg tacggggggtc tccatgaagc 120
cggaaccggt tattggagtc tcaacaatca agaaagagga ctctctcttg acagaagggtg 180
aggttgatgg cggcaccgga agagtgcctg gagaaacttg ggtgcgatca aagccaggct 240
caaatacctc atgcagggca cgcggctgga acatgagcgc agcggcacct tccgtgggta 300
gtcaggcaga tgaagctgca tcaaagggtgc aacttcacgc aggggttttag ggtttagggc 360
catctaacgc ctgttggtgt tgctgaattt tgtgtcctgt ggttacagggt attattgtcc 420
tgaataatga 430

<210> 36971
<211> 333
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-C12

<400> 36971

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aagaagctgc aggaagaagt gcggcggaac gtgccggcgg ngcaggagat ggtcaccgag 120
gacaatctgc ccggcatgac ctacctcaag gccgtcatca aggagacgct ccgactgcac 180
ccgcgggtgc cgctcctgct tccgcactac tccctggacg cctgcgaggt cgccggctac 240
accattccgg ccaacacccg cgctgcctgc aacgcctggg cgctcggccg acacagcggc 300
tactgggagc gcgagaacga gttcgtcccc gag 333

<210> 36972

<211> 379
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-040-Q1-K1-E12

 <400> 36972

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tgggaaaccg tgactggagg aagttgcttc cggtcgtcac cgtctgcgan gagcacggcg 120
ccggatgcgg cgaaggaagt ggccggagaag ccggaggagg ggaagaagcc cgacgaggag 180
ggtggcgagg ggaagaaggc cggccccgcc gccgagaagg agaagaaggc gaggaagccg 240
cggagcaaga agcccaagtc cgacggggccg caccaccga cctacttcga gatgatcaag 300
gaggcgatcc tgtcgcacga ctgcgggaag gtcggngcga gcccgtagc gatcgccaag 360
cacatggcgg agaagcacc 379
  
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<210> 36973
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-040-Q1-K1-E2

 <400> 36973

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ttctcacgaa tgactcgtat cagggaatca gagaattctt gaatgagggtg acattgcttt 180
ccagaataca tcatagacac ctggttacat tccttggtta cagtcagcaa gatggcaaaa 240
aacatactag tgtatgagtt catgcataat gggacactaa aagagcacct tcgtggagct 300
gataatgaaa aagataacta gctggcttga accgtttgag aatggcgaag attctgcgaa 360
aggtatagag tatcttcaca ccggatgctt cccaacaatc attcatagag acctgaagag 420
cagtaacatt cttctagaca agaaca 446
  
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<210> 36974
 <211> 353
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-A8

<400> 36974

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ggaatgattt ttcgtaagga gccatTTTTT tacggtcatg acaaccatga tcaacttggt 120
aagatagcca aggtacttgg aacagatggg ctgaatgtct atttgaacaa gtacagaatt 180
gagcttgacc ctcagctcga agccctttgt ngaaggcata gcanngaaac ctggacanna 240
gttataaatg cagacaacca acacctagtg tctcatgagg ccatagattt tctcgacaag 300
cttttgcggt atgatcatca ngacaggctt actgcacgtg aagctatgac aca 353

<210> 36975
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-B1

<400> 36975

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gacaaccggc gacgcggggg gaacatgggg aagacgccg tgcggatgaa ggcggctcgtg 120
tacgcgctgt cgcctttcca gcagaaggta atgccggggc tgtggaagga catcaccacc 180
aagatccacc acaaggtcac cgagaactgg atctgcgcca cgctcctgct ccccccgctc 240
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taaatgcgct gcccttgaca gacagcactc ggagttttca tgatggggtt cataatcttc 360
ccatgatgat ttaacatttg ttgatcaat ttcagttcaa cgccttttca tcgttccata 420
tgcatatatg gtatacgtgt ctggcaaact t 451

<210> 36976
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-B10

<400> 36976

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gctcaccacc gaacaggttc tgaagcgaga tattccatgg gagcattaca tgtcaactaa 180
gcttatctcc ggaacgtgcc ttcagctctt acggcgatat gaccacaaac cggagagcca 240
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gcggagcatc tccaaggaag agactgtgga atacgtgc 338

<210> 36977
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-B11

<400> 36977
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cgtcgatgatg gcggacctgc cgaacgcccc ggccggcgtct gactcgccgg ctgcagacga 180
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ggacaacctc attatcgaga cgaacgacaa c 331

<210> 36978
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-B12

<400> 36978
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aacgaggtgc ccaagaccgc ggagaacttg cgcgcgctgt gcacgggcga gaagggcgtg 180
ggcaagtccg ggagccgctc cactacaagg gctgcacctt gcaccgcgtc atccccagat 240
tcatgtgccg gggcgccgac ttaccgcgcg gcaacg 276

<210> 36979
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-B2

<400> 36979

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atagacggaa ctaccggtga gaaatcaggc gacgacaaag agaccaccaa cgaccaacac 180
tcctagctgt ctcgtgtagg gatccatcgt gctgtgtgtt cttctggctg ttgtacctga 240
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atgctcctgg ctggctcgtt ggccgncctc acgggaacgc tgccgcagaa tgacgactgg 360
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<210> 36980
<211> 388
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-040-Q1-K1-B3

<400> 36980

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cacaggatgt gccatatgtg tactgcctgt tctatgtcat atttgttccg ctccgctgga 300
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<210> 36981

<211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-040-Q1-K1-B4

 <400> 36981

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gactgccaca actncggtct tgttagatcc catggcagcg accagtgagt tcaaagtgtt  180
ctgcttctac atctactgan gccagtggca gcgaagactg gctggaggga atggtcacag  240
aatatcttgt tgagacattt gctgattact tcggtgacgt taaaatgtat attgaagaaa  300
gaccatttcg aagatttgtg gaagcttgca tagaagaaac aatcgtgggc tatgttgatc  360
atctnctttc ccagaaagtt gaaagtagaa tgcggtattct ggcagatatg agagatctag  420
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<210> 36982
 <211> 449
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-040-Q1-K1-B5

 <400> 36982

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ttcactgcta ctteggcccc ttcgtcgccg acgagaacca ccgcgtgctg gttggaatgg  180
caagtacagc atgctttgtg attgtcagta agaatgacat cccaatctat gaggcagaag  240
ttggatctgc acccaaaaaa gaagatttgt cttatcacca tcagtttatt ctgcatgctg  300
cattagatgt tggtcaggat ctagcatgga caacaaatgc aatgttcctg aagtcagttg  360
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<210> 36983

<211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-040-Q1-K1-B6

 <400> 36983

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 cacttgatata gctggagctg tagcataccc tgatggttct gaattattgt ccataaggc 180
 aatcccacag cgcgaggatt ttccaagtga gcagctatat cgctcctacc tggtaatcca 240
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 tgatatctgc ggagaagcga cctacgtggg tttctactgc ggagtactgc ctgggcgaag 360
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 <223> Clone ID: LIB3069-040-Q1-K1-B7

 <400> 36984

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 cttatgataa accctgacga tgtcgaggaa tgtggaggcc tcgttgctga tcgaggagcc 240
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<210> 36985
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 36985

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ccagcgcgtg ggcgtggcaa ctacctcggc cgnctnccgc cgccctcttt ctgcgccag 180
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gggaaatga 429

<210> 36986
<211> 410
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-040-Q1-K1-B9
<400> 36986

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cttgaggttg ttctttccgc cgggtcaaaaa gctaaggagg aacctcgaaa acaaggtagc 180
aatgttcaag ggagaaataa acttgcacga gaaatgagtg atgtaatggg agaaggcaat 240
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gatgctgttg tagttgcagt tggccaacat cgcagacctg gcatagttcg tcagttcaca 360
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<210> 36987
<211> 371
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-040-Q1-K1-C1
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cgccggcgcg agcaggccgt cgtgcacgcg ccggagcctc gacgccgtcc aggccccgcg 180
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<211> 273
<212> DNA
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caaccgaagc tgaacttcag gacatgatca atg 273

<210> 36989
<211> 383
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-040-Q1-K1-C11

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aaggtgtcga gcctgcagag caagtacccc ggcgcgcggg tcatgtacgc cgacttctac 180
agccacgtgt accgacatgg tgaagagccc cggcagctac gggttcagca ccaacctcag 240
ggcctgctgc ggcgccggcg ggggcaagta caactaccag aacggcgcg ggtgcggcat 300
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gaccgaggcg gcgtacagga aga 383

<210> 36990
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G9

<400> 36990

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 tggattaccc cagcttcaag ctcgtcatcg ttggcgacgg tggaactggg aaaaccacat 180
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 aagttcacc cttggatttt aacactaact gtggcaaaat ttcgcttcta ttgctgggac 300
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 gccctcatta tggtttgatg tc 382

<210> 36991
 <211> 314
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H1

<400> 36991

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 tgacaatggt ttgcatgttt atatccacac tttgctggag atgggcatgg tagtctgttg 180
 gtgaccaagg aagctgtgat atctgtggcg aggtgccctg ctagaggctc ctttaaatggg 240
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 atattatcta tcta 314

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 <212> DNA
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<223> Clone ID: LIB3069-039-Q1-K1-H10

<400> 36992

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cttcgagctg acagtattag taaactgaag aaagcatttc cagaactggg ccaagagggt 240
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gataagaaga aatgtataga aataccagtt gcttgtgagt tgctgaatct agtattaggg 360
ttgcagttcc gccctcaggt tgacaagctt aataattacc tcatgtacca aaatgactac 420
aaggtgataa caatggacca gtggat 446

<210> 36993

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H11

<400> 36993

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aaaaaagact aatacataaa aaaaagaaat aaaaatgaaa taaaaaactg gcttgaaagc 180
atattaaagc taaaaggatt agtaaactga aagagagcgt ttacagaact 230

<210> 36994

<211> 218

<212> DNA

<213> Zea mays

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<400> 36994

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agtcgcttat gctacgactc tgcaatgact catggatatg tgagtactgc catggatgat 180
atttgatgcc tctgaatgac aagatctgat tattgact 218

<210> 36995
<211> 357
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H2

<400> 36995

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ttctttttct ggaaccgttg tagtgtacaa gagatcaagc tttggttttg tacataatgg 180
tgccctgggt agacctatct cctgactgta gttattggct tgaagtctag tttggggaag 240
gttcttggtg ccagctacct tgcagttgcg gtatttgagc agatagtgtg ttctaactat 300
gcatactaag agatgaccgg cttcgggtgt tttggatatt ttatggtttg gatcaat 357

<210> 36996
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H3

<400> 36996

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gctggtagtc tctatgtctg cgggtgcctt ggcacagga agacattatc tattaacaag 300
gtcaaggata gcttggtgtg ttgggcagat gagatgggaa tggagacacc tgatgcctta 360
gcaatcaatt gtacaaacct agcaaacacc tcagagattt ttggcaagat ac 412

<210> 36997
<211> 127
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H5

<400> 36997

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<210> 36998

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H8

<400> 36998

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ttcttttccc ggttgctgtg ggcatacaa ttggccatgt tgctgctaca gtgagcatgt 180
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tggtgtcaag gttcttccctt ggggagacgt ttccaattcc agtatatctt tctcttcttc 300
caatcattgg tggttggtgt ctagctgctg tcacagagct gaacctttat atggttggtat 360
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<210> 36999

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-H9

<400> 36999

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agcaccgggg cctccgcgcg atggcgccgc ttcgtccga accaatcgac cgcgagaaga 240
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 <211> 366
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-040-Q1-K1-A1

<400> 37000

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aacgccatcg tttgagagct tgttgaata tgttcagact tctatatgat catcttatta  180
tcagttgcta agagtgtctat tgggcttaat gggcccttta tgtttgttca ctcaattttg  240
tagtaaacag aatttggtat accaagggga tctatatatc aatgtatgcc ataaattgtc  300
tgactaccat ttctcatgaa atgcttatat tgtttaaaaa aaaaaaann nnnnnaana  360
ncnntt                                           366
  
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<210> 37001
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-A10

<400> 37001

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caagagaata ttggagaagc taatgataat tttaataatt gcgaagcaca caataattcg  180
gagattcatg catttgaagt gtcgatggaa acgcagtcac cagaagtcaa ggaagtatct  240
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agacaaacca gtatggcatc gactggagaa ctagtatcta caaatgaaca catacacatg  360
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<211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-040-Q1-K1-A12

 <400> 37002

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 tggtgacttt agccaacaaa ggactgtact tgctattgac ggtggcttat ccaagcacta 240
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<210> 37003
 <211> 284
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-040-Q1-K1-A2

 <400> 37003

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 aaacgccatc gtttgagagc ttgttggaat atgttcagac ttctatatga tcatcttatt 180
 atcagttgct aagagtgcta ttgggcttaa tgggcccttt atgtttgatc actcaatttt 240
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<210> 37004
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 37004

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cgcgcagaag cgcgcgctcca ggatcctgga gatcctccgc gccgacaagg gcaagcaggt 180
cgcggaagac gcctcggggc tctgtggcgac ggtgtcggcg ccgcaggagc gcgggtgccg 240
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<210> 37005
<211> 159
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-A4

<400> 37005

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gagatttgat cttttggtgc ctgttaagct tcttgatgt 159

<210> 37006
<211> 377
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-A5

<400> 37006

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ttcaagggac ctgtcga 377

<210> 37007
<211> 424
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G8

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<210> 37008

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-A6

<400> 37008

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tgtactcaat gctcgatgca cggcatgcta ttctattaca gggccatatg acctacggag 360
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cgt 423

<210> 37009

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations
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caaaagattht tggcaggatt gtcattgtcg acaacaatcc gttcagtttc attcttcagc 360
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<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-F11

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gaaccaagg aatggcgata caacacataa ggaacataaa aggcaccttc ttgatgctaa 240
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<210> 37011
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-F12

<400> 37011

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 gttatcttct ttcacagatg gacggcaaaa caataaaggc tcagatctgg gacacagctg 180
 ggcaggaaag gtaccgtgca attacaagtg cttactaccg tggagccgtg ggagcactgc 240
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<210> 37012
 <211> 256
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-039-Q1-K1-F3
 <400> 37012

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 attgacaacg ttaaggccaa gatccaggac aaggagggca ttccccaga ccagcagcgg 180
 ctcatcttcg ctggcaaaca gcttgaggac cggcgcacgc ttgtgacta caacattcag 240
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<210> 37013
 <211> 464
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-039-Q1-K1-F5
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 tggaacccaa ccggagccac aaaataaatg gtatgcatgt ggatggctgg tttttcattg 180
 gctctattaa agcctaattc ttggacatat tctatccttt catgtcttct tttattatct 240

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 tcccattatg cactgggtgcc tctggaggtc tccattgaca tgtncaaacc atctcaatct 360
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<210> 37014
 <211> 413
 <212> DNA
 <213> Zea mays
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 cggcctggag atcgcgctgc gggacggcgc ctgggcctcc gtcccgcccg acggggacgc 300
 cttcttcgtc aacgtcagcg acaccctgca ggtgttgaca aacgggaggt tcatgagcgt 360
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<210> 37015
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 <213> Zea mays
 <223> Clone ID: LIB3069-039-Q1-K1-F8
 <400> 37015

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376

<210> 37016

<211> 298

<212> DNA

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<223> Clone ID: LIB3069-039-Q1-K1-F9

<400> 37016

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gcacttggat attttccggg gtgatagtga ctttctcaag gaatttctac ggagctatca 180

acttccccctt ctgagggggg aatcaaccac cgatgtctac agatcagtg c gaaactcgaa 240

gttcagcaag gcatcatatc gcgcgatgtg ctactgtata ttacacgaag acaacgtc 298

<210> 37017

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<212> DNA

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<400> 37017

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gcggggggcg cctgctggc gctggcgcg gcggacctga cgcacgacaa ctgctgaag 180

aacaagaagg tgacggtgca gaacctgtgc agccacgacg tgacgctgac gctggagccg 240

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gagttccccg tgtgctggtg gacggggcgc ctgcgcgcgc ccgaagcctg ccaggtggag 360

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<212> DNA

<213> Zea mays

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<400> 37018

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ttggattagg atctgctact ttaggtcttg taagtttgat tagctactgc tgttcagatt 180

ttagagggtgc tattgcttct gctgtatgat gtttgagttt gatattcata tttcagacct 240

gatgttgctt atatatgtgc taatatcttt aaaatctgat tcagagaatc atatatatta 300

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<210> 37019

<211> 261

<212> DNA

<213> Zea mays

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<400> 37019

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ttcgagcaag cagacttctt tctgctcttc accaagttcg atctcctaga gcagaagatc 180

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aacctctca acggcggcag c 261

<210> 37020

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G2

<400> 37020

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ggcggcgacg actacggccg tggcaccggc ggcgggtggct acaacaagtc cggcggcgga 180

gacgactacg gccgcagcgg cggcgacgac tacggccgtg gcaccggcgg cggcgggtac 240

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gacg

304

<210> 37021

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G3

<400> 37021

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tgctgtgaaa gggcagtctc tcccttctag tgaaagcaag aatgatagtg ctgtgcctga 180

tagagcaaag tacaatagag atgacattcc tgttcagtac gatgctgcaa agatctttgt 240

cattaaatcg tacagcgagg atgacattca caagagcgta aagtacaatg tgtgggcaag 300

ca 302

<210> 37022

<211> 396

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-039-Q1-K1-G4

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tcttcggtct cgaacgcgat cttgcccatt gtggctctgg cgccggtggt tcgtgagatc 180

tanggttgtc gagcgccgcc ggaatgggag ctggatgggg cgccnggaag atgttcgcag 240

cgggggccgc cgtcccggag ctgggtccaac gttggcgga gcgtaatccc cgaactactt 300

gcaaaacaca naatggactt ggaaaatttg acgctgacaa aacattcaat cagaacatta 360

cattttttcc tggtagccca tgtacaatac ttgaaa 396

<210> 37023

<211> 399

<212> DNA

<213> Zea mays

<223> unsure at all n locations
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<400> 37023

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gggctggacc tactcagcta ctcgatctgc atcttcttgt cgtcggcctc tctctacatc 180
ctgcataacc tncacaaggg cgacgaccat gaggagtgat gagagtgtgc aatataatgc 240
cgaatctgta actctatgac agaagagata atgtgtaggc ttgggttcag ctgccatgta 300
ccttactgga cccacgtttc aatgagcatg ggtgtcacct gacctgacat gccctttaa 360
gcctggtcct gaacttagac caccatgtgc ttactata 399

<210> 37024
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G6

<400> 37024

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cggcggcctc gcctgggcca cggacgacca ctccctccac aacgccttca gcacctacgg 180
cgaggctcctc gagtccaaga tcctcctcga tcgggagacg cagaggtccc gcggcttcgg 240
cttcgtcacc ttcttcacgg aggaggcgat gcggaacgcc atcgagggca tgaacggcaa 300
ggagctggac tgccgcaaca tcaccgtcaa cga 333

<210> 37025
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G7

<400> 37025

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 gactacttcg atgtgctgag cactttcgtc aagaattaat aaagcgtgcg atactaccac 180
 gcagcttgat tgaagtgata ggcttgcgct gaggaataac atttcttttg ttctgggtttt 240
 ctctttcacg ggattaaatt ttgagtctgt aacgttagtt gcttgtagca agtttctatt 300
 tcggatctta agtttgtgca ctgtgagcca aatttcattt caagagtggg tcggtgggat 360
 aatcagaata ataaattacg tttcagaata caaaag 396

<210> 37026

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-F1

<400> 37026

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 ggcggcgccc ttccctggcc actctagccg cctcgggcgc actgctaccg cgctcgccgac 180
 gaggcgcagc ctaaaggcgg aggccaaagg cgagtggctc ccgggccttc cctccccgc 240
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 cccggagAAC ctgaggtggg acgtgcaggc ggagctgggt aacgggcggg gggcgatgct 360
 gggcggtggc gggatgctga tcccggaggt gctgaccaag gccgggctga tcaacgcg 418

<210> 37027

<211> 166

<212> DNA

<213> Zea mays

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<400> 37027

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 ggtgtctaca ggtgcatctg gtgggggttt cagcatcgat ctgtctacct ggactacttg 120
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<210> 37028

<211> 395
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-039-Q1-K1-D4
 <400> 37028

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 agaccgtcga ccctttctct aagaaagatt ggtatgacat caaagcaccg tcggtgttca 180
 gtgtgcgcaa catcggaag actctcgat tcaggacaca aggtaccagg aatgcttctg 240
 agggctctgaa gcacagagtc tttgaggttt gcctagctga tcttcaaggc gacgaggatc 300
 aagcttacag gaaaatcaag ctctgtgctg aagatgtgca aggcaagaat gtgctcacia 360
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<210> 37029
 <211> 370
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-039-Q1-K1-D5
 <400> 37029

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 atccatattg gtgggtgctaa ggggcctcca gatagggttt tcatcattgg agcagtgaat 180
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<210> 37030
 <211> 369
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-039-Q1-K1-D6

<400> 37030

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gaggagggac ggttccacgg ccctcacagc cacagcacca gcacgacccc gacgggcggc 180

gcggcgggcg cggcggcatc gccgcgcaac ttccggcgca gcttctcttc cgcgctctcc 240

gcggggccaca gccacggcgg cggcggcggg ggcagggtgcg tgtgcgcgcg cgcgaccac 300

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<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D7

<400> 37031

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aaaattgcag catctagtcc taaagcaatt cactttctaa acaataacca caagctaaaa 180

tggagtagat ctaaattctc caaagaatgc aagggttgatt atgtgaacaa taacatctca 240

gaatgcttca acaattggat taaagattac aaagatctcc cagtcgctga tctaattggat 300

aagattaggg agaaaattat ggagaagatt tatacaaggc aagagatagc caatcgaatg 360

gaagggcgta tcctacaaag tgtgatacat gaagtgaaca tgaagagc 408

<210> 37032

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D8

<400> 37032

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tgctgccacc cttatctcca tttgtgtcat cgaaactcct tgcttcccct gctgtgtgaa 180
tctgtacggc tttgcgtggt ctggacactg attgcagttg aatccagttt gtagttctat 240
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taaaaa 306

<210> 37033
<211> 420
<212> DNA
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<223> Clone ID: LIB3069-039-Q1-K1-E1

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<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E11

<400> 37034

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atggggagaat cgactacgaa gagttttag aaatgatgag gaagggaagt tatacctg 418

<210> 37035

<211> 287

<212> DNA

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<400> 37035

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caaaatgtat ttcttggttg gtatatagca gccctacaac actttggtga acttagttac 180

tgcagactag gtaattacag ttgcaccttt tgtattttat agcaaacca gaaattttca 240

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<210> 37036

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E2

<400> 37036

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accgtaaaga catttattgt tgctattgtc gtaaaagggg ttgggtatag caacaaaaca 180

tctcttcttg tcggcatgtc tcttgcacaa ataggagagt ttgcttttgt tctcctaagc 240

cgtgcttcaa gtatccatct catcgagggc aagctatacc tgcttcttct tggaaccact 300

gcactcagtt tggtgacaac ccctctgcta ttcaaaatga tcccagcagt ggtccacctc 360

ggggttcttt tgagatgggt ttctgtcgat accaatcagc tgggcctaaa aaatgatgtc 420

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<223> Clone ID: LIB3069-039-Q1-K1-E3

<400> 37037

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cacgttcagg gagggcgtgg ccgacgtgga gtacaaaggg ttccttatcc ccaaggggtg 240
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<210> 37038

<211> 473

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-039-Q1-K1-E4

<400> 37038

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tggtttctaaa aaggtccaag aaaagcagga ttacagagat attntacagg ttcaagatag 420
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<210> 37039

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E5

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<210> 37040

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E6

<400> 37040

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ggaaaaataa a 71

<210> 37041

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E7

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cgcactgcta ccgcgtcgcc gactaggcgc agtctaaagg cggttgcaa gggcgagtgg 240

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gaccggttgg gcctggctga tgaccggag aacc 334

<210> 37042

<211> 413

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E8

<400> 37042

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<210> 37043
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-E9

<400> 37043

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<210> 37044
 <211> 475
 <212> DNA
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<223> Clone ID: LIB3069-039-Q1-K1-D2

<400> 37044

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gcgtcgtgct cggcgctcggc gtcggggaggc tccacctcca acttctcogg gccgtccagc  180
  
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ggcagcggca gcgggtctgc caacaagggtg gactctccga ttctcggcct cgtcaccgag 240
gccgacagca tcacaagaac agcccggccg cagcacagcc atacggcaac gggacaataa 300
cagtgtgaca ctacgaata tacttgctcg cccgtcttac accattgttt gacagttttt 360
acaatgctta acttttttagg tgagtgggtg gttgctggga atgtacagta tttgggtcaa 420
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<210> 37045

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-B9

<400> 37045

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gctccggccg gtggcgccgc caacgccgtt ggaaacgatg atggcgagga gcagcacctc 180
aacacctttc tcgacgtgc gaatgcgtcg tccgcctcct caagggtgca gttcaagaat 240
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<210> 37046

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-039-Q1-K1-C1

<400> 37046

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ctctccggca acgagctcag cggcgagggtg ccgatgcagc tggagaacct gaagctggac 180
cagttcaatg tgtccaacaa ccagctgcgt ggcccggaga cgtaccgcag cagcttcttg 240
ggcaaccctg ggctttgcct ggatgatgcg ctccatcttc atgtttgcag ctgccatcct 300

ggtcgccgga gtggcgtgag tctatcggcg gtaccggagc ttcagcanat cgaagctgcg 360
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<210> 37047

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-C10

<400> 37047

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gcagcgggtcc ctctttgctt ccaaggccgc accttcgcgc ctctctctcc tccgtggcgc 180
ccgcatcccc tcgcaggccg tctccttctc cgggggcctt ggcggcgtgc cctctcacag 240
ccgcgcgcgc ttgcctacat ccgccagcgc cgagcccaag gaagcagatc ttcagtctaa 300
aatcaccaat aaggtgtatt ttgacataag cattgggaac cctgtgggga agaaatgttg 360
gaggga 366

<210> 37048

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-C11

<400> 37048

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accctacaca tgtgagtttt cacttgtatt gactaaggga atgcttagac ttctgtcccc 120
ttgtcaatat tgggttggtg aatacttagc catttgatg tagaacccca ggaaatggtg 180
cagtatgcga tttggagtgc tggcagcttg taaaacaaat ctgtgctagc agtccaccat 240
ttgtttacat ctccaaatct tgtttgaaac ttgcatgtga acgcaggcct tcgtctcaaa 300
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<210> 37049

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-C12

<400> 37049

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tattgaacgc attgcggaga gatttgttga tttgactatg gaacataagg gggagatgaa 180
ggttgtggtc aggacagtta tttcactcac caaggaggag gagaaagaac tcaaggaaac 240
cttgcaggat atccttgggg aaaacaaaac tattttgggtt gaacagaaga ttgactacag 300
catcatggga ggattagtga ttgaattcgg gcagaagggtg cttgatatct caatcaggaa 360
cagggcgaag caaatggagg cgttcttgaa ggcaccactt gacttctaac aacctttttg 420
ataaaagca 429

<210> 37050

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-C2

<400> 37050

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gcagttgctg aagccaacca cgctgtgcag gaggcaaagg ccgagaagga gaggcttcaa 120
gagaagcttg cacacacgga atcagagggtt gctgtggcca acatggctgc acatgaatct 180
aagattgagt tcgacaggct tcaagagaaa cttacatata cagagttggt ggttgctgaa 240
gccacaagg ctgtgcacga ggcaaaggct gagagttcgc atctgaagga gcggttactt 300
gacaaagaga atgcattgca gagcataacc caggagaatg atgaattcag gatgccaga 359

<210> 37051

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-039-Q1-K1-C3

<400> 37051

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 ttgctgggtca gcagaggaat caaagcagta ggaatgtagg atcgaggaga gtgacaggac 120
 ttccccctctg tgcacttcgc cgaaaagtaa taatgggatt gctatgcatg gcccttggtg 180
 tacactagaa aattgggcac gcaaacttgt gtcagttttt ccgctgttgc gaaattcagt 240
 gatgggtgttt ttgtaactat accaacctgt gtcagttttg ccgttggtgc aaaactcaat 300
 gatgggtgttt tttgtaatta ttatacatcc gaataataag actgggtgttt ccagacagac 360
 tatgcangct aaagggaat cacgattttt ct 392

<210> 37052
 <211> 202
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-039-Q1-K1-C4
 <400> 37052

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 gggataaaaa aagtagtcaa tgcagtctct gtcatagtgg ggccaaagga aagtgatagc 120
 ccagacaggc agaagttcaa acaagggtt aaatttttcg aacctgagat caaaggacct 180
 ttacctgaaa tgggtgagta ca 202

<210> 37053
 <211> 283
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-039-Q1-K1-C5
 <400> 37053

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 caaagcggaa cttgacaaga tgtttgagtt cgagggcgaa ttggtatctg ctaaccggaa 180
 ctggcagatc gtttataccg acaacgaggg tgatatgatg cttgtcggag atgacccgtg 240
 ggaggagttt tgcaacatag tgcgcacgat ctacatatat acg 283

<210> 37054
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-039-Q1-K1-C6

 <400> 37054

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 agcttcatca gtattaaaaa aaaaaaaaaa aaaatataaa aataaaaaaaaa aaaaaaaaaa 180
 aaaaaagaca aattgattca aaagaaaaag tatttaaaaa gagataatta aatttaaaaa 240
 aaaagtatga ttataacaa agttaaaact taaaaaacgt ttgtt 285

<210> 37055
 <211> 276
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-039-Q1-K1-C7

 <400> 37055

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 gatgactatc atgttgacaa ttgtcgacga tcttgtgtcc atcgacactc taattgagga 180
 ccaccttacg caagagccca tcaatgagta cgtccagagt tgcgacattg tggctttcaa 240
 caagatctag agttcagttt ctgagattgg gcaacg 276

<210> 37056
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-039-Q1-K1-C8

 <400> 37056

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 tcaagcccgg caaggccgtt atctctctcc agggccggtt cgccggccgg aaggccgtga 120

tcgtgcgcgt tttcgaggag ggcacccgtg atcgtcctta cgggcactgc ctgcgcgcgg 180
gctcgcgcaa gtaccccaag aaggtgatcc gcaaggactc cgccaagaag acggccaaga 240
agtcccgcgt caagtgttcc atcaagctcg tcaacttcac gcacctcatg cccacccgct 300
acaccctcga cgtcgacttt aaggacgtcg catcggggcg gcccgacgcg ctcttcaccc 360
gggacaagaa ggtcgaagcc tgcaaggccg ncaaagcgcg cctcgaggag aggttcaaga 420
ccggcaagga c 431

<210> 37057
<211> 433
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 37057

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caatatccca acagaaagca ttggtgctcc tgctggtgaa gagaatgtac aggatgctag 120
gcagcaaaat gtacctcaaa gacaagttgt tgtgaggagg ttctacttcg cttttcagct 180
tgacttgacc ctgatcatca aactagctgc agtggtgttt ctcttttagcc aggaaggctc 240
aaaacaaagg ctatttcttc tcatactgtt tgcattcattg atttacttat atcaaaccgg 300
agctattata ctttttgtaa gatggcttca gcggggcgga ggtgcagctg ctcatccacc 360
acaggctcct ngctcggccg agaaccgtgc tgctctgcct gcccaagatg atggcaatga 420
gcagcccaat gac 433

<210> 37058
<211> 202
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-039-Q1-K1-D1
<400> 37058

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agggttgata agttattgag acaagctgct ggcataatct ggttggctga tgactatctt 120
atggacccta ttgattatcc catggagggg ttatccaacc ttggaacctt accttaaccg 180

ttccattgat tcttaccctt tc

202

<210> 37059

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D10

<400> 37059

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gtgcattagc agctctatca tctgcattca atccatcgtc tcaacaaagg ctctctaattg 120

agaggcttaa aagcacaggc gatggacca ctcaacgcgc ctcagcactg gctgccctat 180

ctaattgatt caatccatcc ttaaaacca aaacaccact tccatctcgc tcaggtcaag 240

gttcccaaag agcagctgcc gtagctgcac taccctctgt gctgactgct gagcaatctg 300

gatcttcaga aaatctacga gccaaagcta gcagcacagg agataagact gatgtcgata 360

ggcctgtcat aactccagct ggaccatctg gtccatcttc tctcagttct gaagctgggg 420

agtccaatgt gtttcgccag gaaaaagatg ctgc 454

<210> 37060

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D11

<400> 37060

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gcaccctcac atggaggaaa aatccaacct tcgcatgtga cctctattta aatccccgca 120

agaatcgatc aatcaatcca aaagggtgca ggaaaacaga gcaatcccggt tgcttagcgt 180

gttcgccttg ccgttggcgt ctcttctccg ttcttctgca cgcgtaggcc cataaacctc 240

cgctaaagct cctttgtcgc gccatttcg tcagccattt cccagattcc ccataagcga 300

agg 303

<210> 37061

<211> 415

<212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-039-Q1-K1-B8

<400> 37061

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ccccccagcc ggccacgcca ccatgctgcc accggccgcg cgccttgcgg cccgccgcct  180
tctcggcctc gcctccgcat ctgcgtcggg agccgcgggc cgccgggtag cttcctctcc  240
gatcgcttcc gcaagctact ccgncgncgc gtccaggggc tccgtcttca gcaccaggcc  300
cttctncacg gctcttaact accaccttga ttccccggag aacaagccgg acatgaaatg  360
ggaagtctca caagcgaata tgaagaaagt caatgagatt cttgctcact atcca      415
  
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<210> 37062
 <211> 397
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-D12

<400> 37062

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agtccatggc gttcaagtcg gcgctggagc tcggcatcgc cgacgccatc cactgccacg  180
gcggcaccgc cacgctcacc cagatagcca ccaaggccgc gctccacccg tccaagacac  240
cgtgcctgcg caggctcatg cgcgcgtca cagtcgccgg catcttcagc gtcgccaaga  300
actcgctccg cgatgacagc gatcagcacg tctacggcct cactccggcc tcccgaattc  360
ttgtcggctc gtcacagaac ttgggtccaa cactgag      397
  
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<210> 37063
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A2

<400> 37063

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agaggtagac tggagcgaag cgtgtcatgc tcatgccata tctgtggcct cgtttctaag 180

ctattggaaa ccaagtcggt gaccactgga cgtcttgcaa tagcttaaca tatacgactt 240

tattagccat tttttgttac acggcttttt gtattcttga gagccttaag caaatctct 300

ggtagtgga tcaggcttag acttttacct ttcttgcaga aatgctgcac cattgatgga 360

atatgtaagc tgcaccatgg aaatgtgact gcagttttat gggt 404

<210> 37064

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-039-Q1-K1-A3

<400> 37064

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cagatgagga ggacatcatt tacgtaaaat agccattgt cttctaggaa cttggtcac 120

attcatccag aacacagcag gtgtgcttct actgatcgaa aatacatctt ccaaataact 180

atgaggactt aaccaagcac cattcaatct tcatttgctt ctatagtttg ggttgcgctt 240

tgcatacata atattgccta tcaaggtaga ttgcccagag cagacttcga tcttcttaat 300

ctacctgaca gtttcttacc atcatttgat tntattgatg gacatgttaa gcctgttcta 360

gggagaaaga ttaactggat gaagacagg atc 393

<210> 37065

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A4

<400> 37065

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cagctcccc aatctgcata tgcttgaagt atattttctg gtgtttgtcc ccatattcag 120

tgtctgtaga taagagacat gaaatgtccc aagttttcttt tgatccatgg tgaacctact 180
 taatatctga gagatatact gggggaaaat ggaggctgcg gcaatccttg tgcagttggg 240
 ccgtggaata cagcatatgc aagtgtttga ttgtgcagca ttctttatta cttgggtcgca 300
 atatagatgg gctgagccga acagcaaggt attttgattc tgcactgctc ccgtgtacaa 360
 acttggttct caataaggca agcaggaatg catctgccag tggaacagag caacctgcac 420
 attatztatg tatgcct 437

<210> 37066
 <211> 301
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-039-Q1-K1-A5
 <400> 37066

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 gtggcggccg acgaagcgcc cgtgggtggag accccggcga cggccgctcg gcccaggag 180
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 g 301

<210> 37067
 <211> 471
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-039-Q1-K1-A6
 <400> 37067

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 gttttgttaa catcctcaaa caagttgcag agaggagact accgacttcc tatgattacc 360
 accaaatgcc cgcaccgttt attcagataa aactattgaa gatactngct ggacttggtta 420
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<210> 37068

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A8

<400> 37068

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 cgtggaggag accacgccga catccggcga tcccgaggag tctgcccccg gcgaggtcga 240
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<210> 37069

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A9

<400> 37069

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 cgcgagggca actgggacct gctgggcaac aacttccccg tcttcttcat ccgcgacggc 360

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393

<210> 37070

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-B1

<400> 37070

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acacttgacg gatcacatat ggactctggg aaccaacagg cgggtgctgta ccgtcagcta 180

ctattcttga tccccctctga gccctcttct tcatctcatg cttaaataatg cacacatgct 240

tccgtaac 248

<210> 37071

<211> 330

<212> DNA

<213> Zea mays

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<400> 37071

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cacgagtagt ctagctagaa tacactcgcg ttcaaaacaa acacacagcg tcgtgctgcg 180

tgatctctga ccgcgtcgac aactaccgca gcaccaagca gctgatggcg gccaccgtat 240

cttctgcct gagcctcgtc cccaccgtgc accaccgggc cggcgggttc cccagtgtgg 300

cactgacgaa cacgcttcag cgccgtcgtc 330

<210> 37072

<211> 425

<212> DNA

<213> Zea mays

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catcctgata tcaggactca tgtgcatgat gggcatcgat actccctcga ggtttgaagc 360
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<210> 37073
<211> 224
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-039-Q1-K1-B12
<400> 37073

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ggtgctctat gccttccaac cgtctgatgt gctgaatagc cctttgccct tgctgcttgg 180
tacgcatact ccctagaaga acactaactt ctccaaaact gttc 224

<210> 37074
<211> 446
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-039-Q1-K1-B2
<400> 37074

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cagctctgca cctgttgtag cttctagcaa caataccaac actatcctca caagacacag 180
aggcaattcc cggttgcacc tccagatgcc acaacataag cataccttac cccttcggta 240
tcggcgatga gcgatgctac ttacatgagg ggttcaagct cgcgtgcaag acggaagaac 300

agcctccggt gctgtacatg aacagcgctg gatatcgagt tgtgaaaatt aagctgaacc 360
 ctagggtcgt gtacctcgac actcgtttcc accaactggt ggggaaaagc agctatggcg 420
 agagctggaa cctcagcctg gacaac 446

<210> 37075
 <211> 378
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-039-Q1-K1-B3
 <400> 37075

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 ctctagatga gaagaccttt tgcagggttc gtatgtgagct aaatgtcata gattcgcgga 120
 acctggattg aattgtagca tacatgtact tatgcttttg atcatgttcc tttttgcatt 180
 ttgttgctta ttatgggtgct caagttgtac aaacactccc tggacctcac aagtccgttg 240
 caaagtgatg cacatgttta gggggagatg tgctacaact tgaccctttg agactaacca 300
 tgtgcttgag tttgataatt tagtctcgaa tgatgattga naggggaaaa gtggacttgg 360
 accatgnaag actttcac 378

<210> 37076
 <211> 469
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-039-Q1-K1-B4
 <400> 37076

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 tcaatacggc atgctttaac gatgccatcc gatgagagag agaaacgaca cagacacaac 120
 tacgcacatg tcacaactca cacggctcaa gattgggctg aaacttttgt atttgagcta 180
 aatgacacgg ttgctgaagc actactgagg acaagacaag ttcctcctgg tcttcttagt 240
 caaatggcaa ttcagcaata tttgcgctct aaaaatcgtc tgctcatatt gggtttcaat 300
 tcgacattga ctgagccagt cgaatcctct gggagaaggg gtggtgacca aatcaaggaa 360
 atggaactca agttgcatcc tgacttaaag ggtcctctga gagccctctg tgaggatgag 420

cgactacag ttattggtct tagcggcagt gacagggagt gtcttgatg 469

<210> 37077
<211> 133
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-039-Q1-K1-B5

<400> 37077

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ctgggaatgc acctacctct gcatgatagc taaccgagac gcacgacgta tcattatatg 120
gactctggca tcc 133

<210> 37078
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-A12

<400> 37078

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agagtgagag ccattgacgga gctgttcgac acggtcgtga ccagcctcct ccacctgccg 120
gaggtgctgg accgcctcgc cgacgcagac ggcgaccggc ggtcggccgg ccaccacgcg 180
gcgcacggcc acggccacgg acgcgtccac gggctcggcg gcggcggcg agcgccggtg 240
gacatcgtgg agagcccccg cgagtacgcc ttcgtgctcg acgt 284

<210> 37079
<211> 189
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-B7

<400> 37079

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agttgacccc ggatgatgtg cggatggcgg taacgtatgg ctggtaaagt ggctcgacac 120

tctgccgccc acatctaaca gcgtagacac ccattcaaag gcagagccta atgctggacc 180
 ttttttagtg 189

<210> 37080
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-038-Q1-K1-G10
 <400> 37080

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 aagaaggggg cggtctggcg caaggctggc ggccccagga agaagtcggt gtcgcggtcc 180
 gtcaaggccg ggctgcagtt ccccgctcgc cggtatcgggc gctacctcaa gaagggcgcg 240
 tacgcgcagc gcgtgggcac cggcgccccc gtctatctcg ccgccgtgct tgagtacctc 300
 gccgacgagg tgctggagct ggccgggaac gcggcgaagg acaacaagaa gacgcgcatc 360
 gtcccgcgac acttggctct ggcgattccg aacgacgttg agctcggcaa gctgctgtct 420
 ggc 423

<210> 37081
 <211> 333
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-038-Q1-K1-G11
 <400> 37081

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 cgacgggcct caccttccat cgacaccgag gaagtctctg ttcccgcata gcgtggcgcg 120
 tgccaccgtt tctgcacgaa cgccatgtcg ggtgtcggcc cacctctgtg aagcggtttt 180
 gccgccggct atggaagggg atctgtgttc gttctcattc ctctattccc ctcccagatc 240
 acgtgctgat tccagccggt cctcaatca acgccattgc ccccgcaatc ccctttcacc 300
 gacggcgcgg acctttcaac gacgaagccg atc 333

<210> 37082

<211> 227
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-038-Q1-K1-G12

 <400> 37082

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 gaatcgaggg ccacactggc cgggctggtg gacgactgga aacgtacttg acgtggttgc 120
 tgtggattat gttggaaggg ggtggggggtt acgcgacact gttcgccatc tatggacttt 180
 acatcggaac gagaccttct agatgatcaa ttatgtcctg gtaccag 227

<210> 37083
 <211> 99
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-038-Q1-K1-G2

 <400> 37083

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 acttgtggac aagtgtgta ttctacacat tgtttgcat 99

<210> 37084
 <211> 105
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-038-Q1-K1-G3

 <400> 37084

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 cactcagttg ttcagttgca attcttcatc aggtcaacat ttac 105

<210> 37085
 <211> 185
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-038-Q1-K1-G4

 <400> 37085

cgggccgacc cacgcgaccg ggaaccgagc aaggatacaa ttccaggcaa tgaaaagccg 60
 acaaaaaccg cgggagcacc ggccaacgaa acaggcctac ccagggcaga cgacgaacga 120
 gaaaagagag caaggacaat ctactgcaca aacaaagaca agaaggccac acaagcagaa 180
 ctaaa 185

<210> 37086
 <211> 203
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-G5

<400> 37086

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 tcggtttcgt gggcgagctg atcgagatgg ccattttaga tgggtgattac cgctgcttgc 120
 tcacagactc gctgtgcca cctacgacca ctggctacac aacgccttca tcacctacgg 180
 ctaggcactc gagtccaaga tca 203

<210> 37087
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-G7

<400> 37087

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 tactgcacaa acattgacaa gaaggctact caagcagatc taaagttatt ctttgagtcc 180
 atatgtggtg aggtctttcg gctgagggtg cttggcgact accatcattc taccgcgcatc 240
 gcttttgtgg aattcgtgat ggcagaaagt gctactgccg ctctcaactg tagcgggtgtg 300
 gtactgggat ccttgccaat aagggtgagc ccgccaaga cgcccgtgcg taccgcgcc 360
 cctcgccagc tgatgttgtc ctaggatatac atacaggagg tgctgacgat gccactgctc 420
 atatataagt aatagagata gacatgtatg aaaagggtct ttt 463

<210> 37088
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-038-Q1-K1-G8

 <400> 37088

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 cggacaaatg catttggcat gtatcatcag gggagcccag tcagatgcga tgcaaaagcg 120
 agaaaggaac cagctattta tgttcaggct acaggcagct tctctttttt ctttctttct 180
 cgtgttcaca attttagtga ggaggattgt cgagctgacc ggtgggagaa accagtcgag 240
 catttagtag ctttgcacca gatgccattt gcttctgtaa accacacatt atctgcttcc 300
 gtgtgtctta gaatggtaat aactcgtcca atctgttttg gtttcatgt 349

<210> 37089
 <211> 142
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-038-Q1-K1-G9

 <400> 37089

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 tctctgttcg ccgcgccccg ccgcagaaat ggcgctgccg aatcagcagg ttgtggatta 120
 cccagcttc aagctcgtca tc 142

<210> 37090
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-038-Q1-K1-H11

 <400> 37090

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 tgggaacggg gctggcagtc ggcgcggcgg ccggcgtgct cggaggactg gcgctggccg 120
 gtggggcgag ctacctggag gacaagtctg aggagcgcgt gtcggagagg gtggaggaga 180

acctggagag ggaagattcg tacgggggcg gctacgacaa ctatggcggc gacgacgact 240
 actgatcgga tctgatcctc agcttccaat aatttgctgg cttgtgggct tggcttctaa 300
 cctcaacctt cgttctttcc ggggtgtccaa attaataatt acttggtgga accg 354

<210> 37091
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-038-Q1-K1-H12
 <400> 37091

ccttggtatg cattacatac tggtatgcaa gtgttcaatg aagaacctgc tttagctcta 60
 atagtaaaaa tttgctctat gctttcaagt gttgactaat acatgttttt atgttatcac 120
 gatgaatgga gaactggctt gaaagctctt cgagctgaca gtattagtaa actgaagaaa 180
 gcatttccag aactgggtcca agaggttaca aggccatcca atttccagga tttctacata 240
 tatgcatttc gttattgcct cacagaggat aagaagaaat gtatagaaat accagttgct 300
 tgtgagttgc tgaatctagt attaggcttg cagttccgcc ctcaggttga caagcttaat 360
 aattacctca tgtaccaaaa tgac 384

<210> 37092
 <211> 250
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-038-Q1-K1-H2
 <400> 37092

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 accagctatt tatgttcagg ctacaggcag cttctctttt ttctttcttt ctcgtgttca 180
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 actttttgacc 250

<210> 37093
 <211> 453
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-H3

<400> 37093

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atggaggcga cattgataag aagctaaagt tggccactca aaaccttcac tacgttaacg 120
tacttccttc cattggcctc aacgtctaca gtatcctcca gcatgacacc cttgtaatga 180
ctcggggccgc tatcaacaga atcgtcgagc ggatgcatac ccccatcaac cgctagctag 240
gaggggtttct gagtcgcacc actgtttctt acagccagca acctgtgctt tttcgttccc 300
tgttaaagct cgaagggttc ctgttatctt ggtgctaaca tggagctgca gcgtcagctg 360
tttattttct gtcagactga aggcaccgac cgaggtaaga gggaaatgat cgggcctttt 420
gtaagcaagt cattggatgt ttattttaga tta 453

<210> 37094

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-H4

<400> 37094

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agaagaactg ttcgtgaagg aaggcatcat cttcgatgcc agttccgctg tggacatcga 120
ctcgggtgttc cgggacactg caagcgagga gatctcgttg ctgatgcaag ccgtcgagga 180
gctcaaagaa actgtggaag aagcggtgca gctcacggac gagaacgaaa agcttagacg 240
cagccttcaa gtcgcacagg agatgaccac 270

<210> 37095

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-H6

<400> 37095

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 tgaggagtgc ctctttgggtc cttttcgcac ggcttggcaa gattacacta gagacttata 180
 tctctcagat ccatatttgg cttaggctta gcatgccaaa tggacagcca aaatggcttc 240
 tttgtttcat accagaatat cctatgctta acttcatgct tactacggcg atctatcttc 300
 ttctatcata ccgtgtgttt gagatcacga atgtcttgaa gtcgggtttt atccccagta 360
 gggataatag ccgtctgtac caaaatttcg ttgctgggat cgccatctct gtgtgcctgg 420
 atctctgctc acttattctt ctg 443

<210> 37096

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-H8

<400> 37096

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 gttggaagaa ctgttcgtga aggaaggcat catcttcgat gccagttccg tcgtggacat 120
 cgactcggtg ttccgcgaca ctgcatgcga ggagatctcg ttgctgatgc aagccgtcga 180
 ggagctcaaa gaaactgtgg aagaggcgtt gcagctcacg gacgagaacg aaaagctatg 240
 acgcagcctc caagtcgcac aggagatgac cactcatgcc cagctc 286

<210> 37097

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-G1

<400> 37097

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 aatgctgatt cagaatttaa ggccactgtt tcacagggtc ttactaatca ccaggaggat 180
 aaggctgctg acaacactga agttcctcag gcatcaatct atagaaactt gtggattgaa 240
 gcagaagctt cagcttgtaa actcaaatac gagcttcaac atgctctcct gaagctcgag 300

acagcaaaag gccttaacga cacaataaaa gcccttgact cattggaaga cagtaaaagc 360
tctaactcat acattttcag taacaaacca cagaaccatg ggaaaggaac cgttacatgc 420
gc 422

<210> 37098
<211> 305
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-039-Q1-K1-A1
<400> 37098

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ccatcagcct tctcatcgcc accaatggcc actggcgagg tccagacccc gaccgtcgtg 120
gcggccgagg aagcgcccggt ggtggagacc ccgccgccgg ccgtcgtgcc cgaggagtct 180
gccctcgccg aggccgaggc cgaggccgag gctgctgctc ctgctgatcc cgaggagctt 240
cccgcgggcg agcagcaggc agccgccgag gcggaggccg cggctcctgc tggtgccgag 300
gagcc 305

<210> 37099
<211> 414
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-039-Q1-K1-A10
<400> 37099

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aaggtgcagt ggtgattgat gttgggacaa atccaatcga ggatccaacc agtgactacg 120
gttatcgccct aactggggat gtctgctttg aagaagcagt gaatgtggcc tctgctataa 180
ctccagttcc tggcggagtt ggaccagtaa cgattgccat gcttcttggc aacacacttg 240
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ctgtcgtgct tgtcctttgt aaactagttc tcttctcttt tcataccttc gtcgctctct 360
attttagctg taagaagaag gctgggatgt accatattct tgctcaataa gtat 414

<210> 37100
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-039-Q1-K1-A11

 <400> 37100

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 actgcccgat ccaggtgtgc agactgctcc ctctctctct ccgctccgaa tggcccgcac 120
 gaagcagacg gcgcgcaagt cgaccggcgg caaggcgccg cggaagcagc tggccaccaa 180
 ggcgggcgcg aagtcggccc cgccacggg cggcgtgaag aagccgcacc gttccgccc 240
 cggcaccgtc gcgctccgcg agatccgcaa gtaccagaag agcacggagc tgctcatccg 300
 caagctcccc tcccagcgcc tcgtccgca gatcgcgag gacttcaaga cggacctgcg 360
 gttccagtcc tcggccgtgg cggcgtgca ggaggccgcg gaggcgtacc tgggtggggct 420
 cttcgaggac acc 433

<210> 37101
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-038-Q1-K1-E2

 <400> 37101

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 cgtaaggagg aggtggaggc ggatgccggg gagaggaaga cccaggagcc gccgcagcaa 180
 ggccagggcc tcctctctt actcgccaac ggcagaggca ggtctggaat gttgccgatg 240
 tcaaacatgt cagctaatac ttcacagctt acaattttct atggcggatc agtatgtgtg 300
 tatgactcag tgccaccgga aaaggcttaa gcaatcatgc ttatagctgc agctgcagcg 360
 gcagcggcag ctaccaaag cagt 384

<210> 37102
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E3

<400> 37102

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gcggaggatc aactggattt ttcgtatacg gctactgcct gtactactac tatgcgcgat 180
cggatatgtc tggcttcattg cagacatctt tcttctttgg ctacatggcc tgcattctgt 240
atgcattctt cttgatgctt gggatggagg gcttccgtgc ctccttggtc tttgtccgcc 300
acatatacaa atctatcaag tgtgagttag ctgttggttg aagatcaaga gcagcagagc 360
tgtaccggtt tttggtgcca ccgagaagtc ccaaatatag aaaaaaaaaat ggtttgctct 420
cgctgcaac aggagc 436

<210> 37103

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E4

<400> 37103

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ccgtcccttg tcgcctgccc gccggtgccc gcacaggctg ccagtgccat actgccatcc 120
ctccgtccgg ccgtctgccc aggtctgctg cccggcgccc tggcctcccg gtcgctgggt 180
ctctgcccag gcgccaggcc gcaggtecca ccgtcccaga ccacccgcga accagtccgc 240
tgcaggctgc aggccaccgt ccctccagtt cgccggtcag attattaacc attcagatac 300
cccagctccg cctagacgcg aatcctccgc cactatggtg gcagcgggtg ccctgccgag 360
ccaagcacag gccgtgcttc ggagccggct ctgcgaccgg gtcttcatcc acttccgcct 420
cagtagctcc ctggacacta attacagcaa gctgaagtac 460

<210> 37104

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E7

<400> 37104

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ctagaacagg acctcacaag aaagaaaaag aaaacaccta gaagcaataa taccaaccat 120

ggacatagga gaacataagc gccggcatgc tgacaagtaa aacattgatc aaccatggtc 180

attactttat ttataacaat cttggaagct tgaccattta cttttcactt atgcgtccgc 240

tgtctggtat agacactatc atccgtcatc gccgaacctt gttgtgtatc cacgaactag 300

aatacacaca agaaatgtgt ttctgcccc catcgtgttg ggagagttga gtttatcatc 360

agagtaagga ccgcgagctt aaatctgtag gtgtcatttc ataagttatt tgatgtagca 420

ttgtgcttga acttgtgtaa tt 442

<210> 37105

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E8

<400> 37105

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ccgtttacaa ttgtcggcag aaaattaaat ttcaagcaat aaatgtctgt ctgcctgagt 120

tacaactaag gttttggttg caatggaatg gatggacatg gttgggaagc ctaagagaaa 180

ctccaaaaat atttgctatc aggtttaaaa cctgagatct ggtgttatat atgcatctgc 240

agggcatacc ttgcggcctt caacttcaaa attgttatcc ttctggccag tttgtaaadc 300

tggtggctgg ttctaatttc actcccatgt tttgtttcca ggatttgaga aggacatgtt 360

caagctgaag aacgagaagc aagcaatgga gcaagaagcc tatctttggg ctgtctctga 420

tatgtgatcc caactgctgc tccttacgag aggaatacag 460

<210> 37106

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E9

<400> 37106

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ccttctctgg gttttaggag aattcaattg ataagttcat tgttaatagt aagcagcaag 120
tgcacgcgat gaacgggggg tggtcggca caccttgatt tctttctttc tcaatctaac 180
gctctcgtgt ttcttcttgg tcacactgat cagagagcag gttttccatg acatgatggt 240
ggcgctaata ttgctgggc gtgtgtgccg gatatcgca tgtcagcaga tcggcatgaa 300
atgctgtcga aaaggagaa agccacaaac ttcaaaccag actatgatat tgatatccat 360
atgaaggctc tagctatgag tgggcaag 388

<210> 37107
<211> 469
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-F1
<400> 37107

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ttccccctcc cgatctcccc caatccgacc aaaccggcag agccgggggg cgcgcatggc 180
gctgcgacgg gcgctcctca gatcggcaga gatctctttc gaacgcaagg ctgcaattga 240
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tctgctagt agatcactta gcaccaggc cgnactacg tcaagcacac cacagcctnc 360
gncttcccc cccctccag agaagactca ctttggtggc ctcaaagacg aggatcgcat 420
ttcaccaac ctctatggc tgcatgaccc ttttctgaaa ggcgcgatg 469

<210> 37108
<211> 359
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-038-Q1-K1-F11
<400> 37108

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gtacatggcc tgctgcctca tgtaccgtgg tgatgtggtc cccaaggatg tgaatgctgc 120
 tgtggccacc atcaagacca aacgcaccat ccagttcgtg gattggtgcc cgactggctt 180
 caagtgcggc atcaactacc agcctcctag cgttgtgcct ggtggcgacc tggccaaggt 240
 gcagcgtgcc gtgtgcatga tctccaactc caccagtgtt gtggaggtgt tctcccgcac 300
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<210> 37109

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-F12

<400> 37109

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 aggcactgga tgtgaaggaa ggtggagtca agaagaaaaa aaagaagcat cagcttgaag 180
 agtcgtctca gattgagcac gatgagctcc acaaaggggg aaactctggc ttaccagctg 240
 atcacaacaa tgagcttatt gaagctggca aggtgggaga tgaagaaagg aatctacatc 300
 cagactacga ccacctcaca ccggcggagc gacgctatat agaacagaag cagaagatcg 360
 acatgcaaaa gctggccaaa gttgccaaca agtcacacag gggaccgtat ccagggactc 420
 aaccagtatc tggcgaacct cagcgagcac tatgaca 457

<210> 37110

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-F2

<400> 37110

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 ttctgtctca tctgggggtt cagttttttt ttctt 155

<210> 37111

<211> 445
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-038-Q1-K1-F3

 <400> 37111

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 gctttcactg aatgggatga cacaagtgtg ggtcatgttg gtccaccact tccttgctgc 180
 tatgtgaagc ttgtttcatg ggaagaatgt gggtacaaga tttctgatta tccgatgccg 240
 agaggagacg tcgtggatgg cggacacagt ataacaaaag gctatttcag caatgaagca 300
 tagacgaatg aagtctacaa gggtgacgag aggggtatac gctgggttcta cactgggtgat 360
 attggccagt tccatcctga cgggtgcctt gagattattg acaggaaaaa agatatctaa 420
 agcttcagca cggagaatat gtgac 445

<210> 37112
 <211> 459
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-038-Q1-K1-F5

 <400> 37112

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 cgcgcggcg caggggcgcc ctgcgcgggt gccgccgcgg ccgagcctgc ggccgagcac 180
 gtgcggaggg tcgtggcgga gttcgaccgc gcggtcccgc tggactccgc ggtcacgccg 240
 ccgagcgggt ggtacaccga cccggatttt ctccagctcg agatcgacag cgtcttcttc 300
 cgcgggtggc aggctgtcgg tcacatatgg caagtgaaga acccaaata tttcttcaca 360
 ggaagggtgct tacgtcttgt ttcgatgcct cagtagttcc agttagtagt aattttgcta 420
 cgctttcgt acatatataa ataattttgc tacctcaaa 459

<210> 37113
 <211> 450
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-F7

<400> 37113

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ctcccagcgc ggcttgcctc actccgacca ggcgtcttcc ggcggcgggcg gcggcgggcg 180
cggcgcgcg acggacggcc tggtcagcgc ctacgcgtcc aacgccggcc agtggggggc 240
cgacttcgcg gcggccatgg tcaagatggg cagcatcagc ccgctcaccg gcacggacgg 300
cgagatcagg gtcaactgcc ggagagtga ttaattatct attacagcca cgttgattgc 360
atttgctctg ggggtagtgg aatagcgtgc atattttgca aagaggcaga gaagaattga 420
aatggagcct aagctcatat gtatacaaat 450

<210> 37114

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-F8

<400> 37114

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acaccaccgc atgctaggga ggcagggagg ggagccgagc cgaggacgat ggcgctgggc 180
gtgttggtcc acggcgcgca gctagcgtg gatctggcgg tggccgggat gtcgctggcg 240
gtggcgctcg ggttcttcgc cctcatcact accttgctct gctccgcggc gttcctccac 300
cactccaagc ccgccgcgta gtcatagcct ccacagcgac caacgcgtct caatctctgg 360
ggatcgtaat actgttgctg gtataattcc tccacatcaa ttgcagagga ggtgctttaa 420
tcaactgctt tatagcactt acagatgcaa agagtagt 458

<210> 37115

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E12

<400> 37115

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cgtgtgctcc acgccctcga gctctctccg ctgccgccaa tgtatcctac cccgcctcaa 120
ggctgcaatg caagaacctg tcttcccaac agagccctct gaatgtgact gctacctgtg 180
cttcttttcgc tgagaagagg ctggttcttg tccatgccac ggcagagggt tctgaggctg 240
gtgcggagca gccagaagag ccgaaaccag cgaccaagat cgaggaaatg ccgctcgagt 300
cgaagcagaa gatgatcatg gagcaaagag cgcggatgaa gcttgccaag aaactg 356

<210> 37116

<211> 319

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-038-Q1-K1-C9

<400> 37116

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aaaggcacia gccgacatat ggccgctcag cctctcctac ctcacgcccc tgtcactgag 120
gtgcgccgtg gagcttgga tccccacggc gatctaccgc catggcgggg ctgcctcagc 180
cgctgagctg gtcacggcgc tgtctctccc ctccactaag ctgccgttcc tccgccgnct 240
gctgcggctc ctgcgccgt cgggcggtgt caccgtcgac aagcagagca cggaagagga 300
gcggtaccgc atcagcccc 319

<210> 37117

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-D1

<400> 37117

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ggaagcccat tggctcctct atgggaaatc catggatcta catgtaccct gagggcttga 120
aggatctcct tatgatcatg aagaacaaat acggaaaccc acctatctac atcacggaga 180

acggaatcgg ggatgttgat accaaggaga cacctctacc catggaggat gccttaaagt 240
 actacaaaag gctagattac atccagcgcc acatcgctac tcttaaggaa tcaatagact 300
 tgggatcaaa tgtgcaaggc tacttcgctt ggtctctgct ggacaacttt gaatggttcg 360
 ccggctttac cgaacgttat ggcattgtct acgtcgaccg caacaataac tgcacgcgct 420
 acat 424

<210> 37118
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-038-Q1-K1-D10

<400> 37118
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 agcaggtagc gcgctcctcg agcccagcag agaaaggccg gcctaccac tctctctctc 120
 tctccagtct ccaccggcag cgccaatagt aatagccatg ggctccaccg ccggcgacgt 180
 ggccgcggtg gtggacgagg aggcgtgcat gtacgcgatg cagctggcgt cgtcgtccat 240
 cctgccccatg acgctgaaga acgccatcga gctgggcctg ctggagggtgc tgcagaagga 300
 ggccggcggc ggcaaggcgg cgctggcgcc cgaggagggtg gtggcgcgga tgcccgcggc 360
 gcccgcgac ccgctcgncg cggcggccat ggtggaccgc atgctncgnc tgctcgctn 420
 ctacgacgtc gt 432

<210> 37119
 <211> 370
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-038-Q1-K1-D11

<400> 37119
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 atctcccctc tgatttgtgt aagttgttca cttgctaatac tctttctcgc ttctcagagg 120
 taaggactaa tgaagttact ggtatgcacc taggacattg gtttagttga tttccgttct 180

aaaatggtag tgaatgactg aaacttgcca gtggaaacca gttcataagg tggcaagggg 240
 aggcattggtg agtccggccc tttccaatcg cctaggttta ggcacatcag cacatgtaag 300
 gtgaggcaag gtgatgccat atgccagagc gtaacaaggn gcttgcccag tccaccagac 360
 agctcatatg 370

<210> 37120

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-D12

<400> 37120

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 tggcaagggtg gagaacttgg agaaggctag agctgccttc ctgccagggt gcaaggccaa 120
 ctctgagggt accctcggca cctacaaggg tgatgctgcc gccgacaccg agagcctcca 180
 cgtcaaggac tacaagtact gagttgcttc tctttgcatg cccgttttgg aactcctgcc 240
 tacgagctaa gttgcggagt gtggtttgct cgttagagct tattttcgga catccaaaaa 300
 acatgcttcc tatgtgggat gatggctatc tttatatattg tatgttagtt agtctctttg 360
 ctgttaaatt tcgtgtcagt tggtcctgcc gatggagaat cgagcagtc tctttatttg 420
 gtctatcaac tatgtgttaa tgctggctat gtatcggaaa a 461

<210> 37121

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-D2

<400> 37121

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 ctggagtctt tggatgaat attccgtata cctggaatga cggccacgga tacatcttca 180
 aatgggtggc tcttgatca gggctttttt gtgcctttat atttgtctcc attgttgctt 240
 acgcacgaca caaggggctc gtcggatcct gaatagctga aataaccgcg tacttgcttt 300

cctcaactgt aaatttgagc cagtgagcat cgactttgcg gggtgattca tctgttgtag 360
 caaattcggg agtatcaaat tggggatgtc gaataggaac tgtaatagga aaaagttaat 420
 gcaaaagaaa tatgctatga ttg 443

<210> 37122
 <211> 467
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-038-Q1-K1-D3
 <400> 37122

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 ggaactgtct attcagagct gttgctgac aagtttatgg agacgcagaa gcttatgaca 180
 tggctaggca gatgtgtgtt gattatatgg aaagggaaac ggatcatttc tctcaggta 240
 taactgaaat tgaaagggtt acattatact gtaagaggaa aaggagagat aagggttatg 300
 gcaacaatgt tgagatccag gcatttgac agatgtacaa tcggcccatt cacatatatt 360
 cctacagtac agagcccatt aatatttttc aaggaagcta tctcacagac gttcctgcaa 420
 ttagattaag ttaccatcat ggtaatcatt acaattcagt ggttgat 467

<210> 37123
 <211> 287
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-038-Q1-K1-D4
 <400> 37123

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 ttcaccagtg gcttcttatg tttaccggag aattttcaag ggtggggaaa tcaatataaa 180
 actgacaatt ctctggatta tgcggcatat ttctcacaca tgctttgggt tgatgacct 240
 aaaatggctg agcttatgag gctctatgta acaattcaca ctgatca 287

<210> 37124
 <211> 464
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-D6

<400> 37124

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tcacatcttt gcacccctca atgacacttt cattcatatc accgatttgt ctgggagggga 180
aactctgggt cggatcaccg gtggcatgaa ggtgaaggct gaccgtgacg agtcgtcacc 240
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tgactgcac attaagcttc gtgccaccgg aggcaacaag accaagaccc ccggacctgg 360
tgcccagtct gccctcaggg cgcttgctcg ttctgggatg aaaatcggac gcattgaaga 420
tgttaccccg gtcccccagg acagcactcg cagaaagggc ggta 464
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<210> 37125
 <211> 399
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-038-Q1-K1-D7

<400> 37125

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tcccgaccag tgacatcggg gtgatcacta gcgcggaggg gaggaagagc atgctgaagc 120
tgcccgagag gatggtgatg agcttctgct gcggcgtgac ggcctctgct gggcaccagt 180
ggactacgct gtccggcagc ggcgctgaag acgtccgctg catgaccagg aagagcgtcg 240
acgaccctgg cagggccgcc ggcatagtcc tcaacgctgc cacctcgttc tggcttcccc 300
tcccggccaa gcgtgtcttc gacttcctcc gtgacgaaag ctctcgcagc gagggggaca 360
tcctctncaa tggcggcggt gttcaagaga tggctcaca 399
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<210> 37126
 <211> 338
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-038-Q1-K1-D8

<400> 37126

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ggaaaaagaa cagaaatcaa tgctgatcag tgatcactaa agccagtatc tccctaccag 180

atcgtctgaa gcgcgaaaga tgagagaacg cagcggctgc tgacaagtga cgacgactac 240

tgccacgaga agggcatcga cgacgagggtg ccgncgtccg aagagccctc gccgacggcg 300

cttgccgcgc cgacgtggaa cattccgccg tagttcat 338

<210> 37127

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-D9

<400> 37127

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gctaagaaga agtctgaggc tgctgagtac cagaagcttc ttgccagag gctgaaagaa 120

cagaggggacc gccgcagtga gagcttggcc aagaggaggt ctaagctttc tgccgccgcc 180

aaggctttctg ctgccacctc tgcctaagaa tgatcagtgc tttgagatgt tttcaaggcc 240

tattttgtaa cagcttataa gtaccttatg ctgccctggc tgtgttgcat cagtcgaccc 300

tccctactta gacttatgag taattggtgc aattttgtat ggacatggta cttgcttgtc 360

cggatTTTTT gagtaccaaa ggttggatat gtggtttaat ctggg 405

<210> 37128

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E1

<400> 37128

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gagtagtagt gatccgcaat gtcgacggag gaggctgttg tggctgaggt cccggtgacc 120
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 tcgagctcgg tggccatcag caagtacgtc gaggggaagc atggcggcaa gctccccacc 360
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 agggtgaaga ac 432

<210> 37129
 <211> 426
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-038-Q1-K1-E10
 <400> 37129

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 tgaaggagct ggagagcctt tgcaacccca tcatcgccaa gatgtaccag ggcgcgggtg 180
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 ggctggctgg ccagtcgct gtcgattta tcgtcgtcgt cgcggtgtat ccgcgttaga 360
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<210> 37130
 <211> 281
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-038-Q1-K1-E11
 <400> 37130

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 gcgatccttc cgcgggtcagg gagagcgtgc ccgtggagtt accagccaaa aacgaggacc 180
 gncatcccat tcccaacccc gcgggcgaca acgtggctgt ctcccctgcg gaggaccagc 240
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<210> 37131
 <211> 461
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-038-Q1-K1-C8
 <400> 37131

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 ctctgcccag gcgccaggcc gcaggctcca ccgcccaga ccaccgcga accagtccgc 240
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 ccagctccg cctagacgcg aatcctccgt cactatgggtg gcagcgggtg cctgcccag 360
 ccaagcacag gccgtgcttc ggagccggct ctgcgacccg gtcttcatcc actccgncct 420
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<210> 37132
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-038-Q1-K1-B2
 <400> 37132

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 ctattcctct ggttccacaa acaactggca caagtgggtt ccgttcctta tgacaaacgc 180
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catgtgcttg actataaccc tgttcttcgc caaggaagtg ccctacagag gaaaccagaa 300
 cctcccaacg aaggcaaacg gcgaggtcga gactgaacct tccggccac tcgctgtgct 360
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 ctggctctcg t 431

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 <213> Zea mays
 <223> Clone ID: LIB3069-038-Q1-K1-B3
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 tactagtgcg accacttacg ttggatgtca ggctgtaatg accgaggaat atgtcacaga 180
 aattactctg gtgaagcact ggagtagtat tcattctgcc tagattcata tacatatgca 240
 gaaacaaacg agtacggaag acacatatat gactattgtg tcatcagtcc atgaccacca 300
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 <212> DNA
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 <223> Clone ID: LIB3069-038-Q1-K1-B4
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<210> 37135
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-B5

<400> 37135

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ttttagtacg acgacttatg ttggttttca ggctgtaatg accgaggaaa tgtcagaaaa 180

atttcgcggt ttgcctggag tagtggtcat tgtgcctgat tcatatctat atccagaaac 240

aaaggagtac ggaggagaca aatatgacaa tgggtggcatc actccaagag caccatctga 300

tcattatagc agaccatcta gaactgacag gaaccgtaac tactgaggaa actaccagga 360

tggccattca cagtaaggaa attaccagaa caaccggtct tcaccagaac gtggttacct 420

agaacaacc 429

<210> 37136

<211> 65

<212> DNA

<213> Zea mays

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<400> 37136

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tgggc 65

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-B7

<400> 37137

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ataaaagacc taaacataga caatttggga gggagctcag cagatctggt acatcacgtc 180

tacagcctca gacatttatg tttcagagtt caactgttac atatggtggt ccaaattggag 240

cctgttatac atcttcaacg actaggaaga ctggtgcaaa cggagtaagt atatatcatc 300
atctcatgaa tgtttttctt catctgcgc agtttatccc tttcccagac cccacacgtg 360
gaagctttgg cactgggtct gccccttttt tttgcatatt tgtagggtga agggcaagcc 420
tggtgaagtg gtgagagttg tctcattgag tactcat 457

<210> 37138
<211> 375
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-038-Q1-K1-B8
<400> 37138

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ccgatcgatc agtgcaggag ggcagcagcg caatgaatta tgaatgcgat gtaccagcgc 180
gtcgtattgg cacagttaat ttgcccatta cccagaaca tttcgccggg ggtaaataat 240
cttcgggtcg gtcacgggag cgagagtgag aaaaaaaaaag taagagtact gtatagccag 300
ctattcatgt acttgctgcc ttggccttcc cttcatcggt atacgggtggc gtcgctttat 360
gcatggttta tttat 375

<210> 37139
<211> 334
<212> DNA
<213> Zea mays
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<400> 37139

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aaaaatgac ctacagtcta ttatggcaact ggcatacatg ggcatacaca aaataacggc 180
gtagacatta tgaacaagat attgactaat gaaagctatg ctatacatat gaggcacagg 240
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aattagatgt tgctcaggat ctaacatgga caac 334

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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-038-Q1-K1-C1

 <400> 37140

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 gagtcogtcg actggagggc caagggcgcc gtcgccgagg tcaaggacca gggcagctgc 180
 gggagctgtt gggctttctc aacaatagca gctgtggaag gcatcaacca gattgttaca 240
 ggcgacttga tctccttata tgagcaagag cttgtcgact gtgatacttc gtacaatcag 300
 ggggtgcaatg gaggtctgat ggactatgcg tttagagttca tcatcaacaa tggcggaatc 360
 gacaccgaga aggattaccc ttacaagggc acggacggac ggtgtgatgt caacaggaaa 420
 aacgcgaagg tgtcactatt gaca 444

<210> 37141
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 37141

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 ggagctctcc accgtcgagg acccttcctg caccaccgag acgccgactc ggtgcacttc 180
 ctgcgcgcgc gcaagaagac ccgaccgcc ctcgcgatga gctggcttga gaagctgggt 240
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 tggggg 365

<210> 37142
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<212> DNA
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<223> Clone ID: LIB3069-038-Q1-K1-C12

<400> 37142

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agaaactggt atgcggtgtg ccagagcgt gtacatatgc gggttcccaa catgcgcgca  180
ctgagcttga agggcaaacc gcactttgct gaattcaacc ttgtcccggc gggttggggg  240
gccactgcaa atccatgggt ggatgcgtgc gcccgatcat gccaggtct tgaggagctc  300
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<210> 37143
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<223> Clone ID: LIB3069-038-Q1-K1-C3

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gtgtggcacc aactagagtc aatgatcagt atcttacaaa tgtcttggtta aagattaacg  180
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ctgatatacc gtctgttgct gctgttggtta gttctcgtga atggcctctt atctcgaaat  360
acagagcatc tgtccgcacc caatcaccaa aaatggaaat gattgactcg ttgtttaaac  420
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 <213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-C4

<400> 37144

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taaagaatct tggccgcaaa tgaatgaaga catcgctaaa gccagtcctc tgatttcagc 180

tgaagccata cctgtactac aaatgcttat gaagacatgt cctcccagtt ttcacgagag 240

agccgatagt ttgcttcatt gcttgcttg ttgcttgaca gtgaccatca ttcgtgggaa 300

taatctgaaa cagacaatgg ggggtacaaa tgcattttgt tgcttgcaaa taggaaatgg 360

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cacttggtta tttgacgt 438

<210> 37145

<211> 445

<212> DNA

<213> Zea mays

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<400> 37145

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aacctacacc aacctcaaca ggcttgtgtc ccagggtcatc tcatccctta ctgcctccct 180

gaggttcgat ggtgctctga acgtggatgt taacgagttc cagaccaacc tgggtacccta 240

cccgaggatc cacttcatgc tttcttcgta cgctccagtc atctctgctg agaaggccta 300

ccacgagcag ctctctgtgg ctgagatcac caacagtgcc ttcgagccat cttccatgat 360

ggccaagtgc gaccacgcc atggcaagta catggcctgc tgcctcatgt accgtggtga 420

tgtggtcccc aaggatgtga atgct 445

<210> 37146

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-C6

<400> 37146

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 gccaagcca agggctcagc ggatctgcgc catgcaagcg tccccaattc gcaccaagac 360
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<210> 37147
 <211> 447
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-038-Q1-K1-C7
 <400> 37147

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 ttgtaaagcc agaatgtagg atacatgggc ggcagcttac gttaggatag attgagccag 360
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<210> 37148
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 <213> Zea mays
 <223> Clone ID: LIB3069-038-Q1-K1-B11
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tgtaattcct ccagcgctg ata 383

<210> 37149
<211> 360
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-037-Q1-K1-H4
<400> 37149

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<210> 37150
<211> 147
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-037-Q1-K1-H5
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gaagaccata cttttgagtc tattggcact ccgaagaatg ttgtatgcca gtttcattag 120
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<210> 37151
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<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 37151

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 ctactgatgc aagtgaaatc agccttgatg agatcaagga tcgggctcgc taggcatcat 180
 gatcatgcat catggactcg gcctactact gtggatttgt atgccattat agacttggtg 240
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 tatggactat ggacatgtgt tgcgctgntc aacttactac tacaataag taatcgatat 420
 gttccctttc cc 432

<210> 37152
 <211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-037-Q1-K1-H7

 <400> 37152

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 tgaaagttaa ttctggatag gtacaagggt taccacctt acggaagcct atactggatt 180
 acacaagatc ctgaattggg tggtagcgac gccgatgata tatgaagcgt caagtaacaa 240
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<210> 37153
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 37153

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 tcanatggga accagcaacc ggtgcataaa gaatacgaga tgagaccaca ccacttcttc 180
 cagtcaaggt ggaggangac gaggggtttc atgagttcaa tggagcttca ttctctgggg 240
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 tcaagatgct gggcatcatc cggngattc tgatgatcat ccttgtggca ctgctcacag 360
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 ggttgat 427

<210> 37154
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-037-Q1-K1-H9
 <400> 37154

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 acacttggtg cagcaccttg agacggagat tgagaaatta tccatccgat ccagcccact 240
 tggtaaagac aggcagtaca ataggtactg atttttcaag cgtgaaggaa ggctttttgt 300
 tgaaactgca gattccagag aatgggggtta ctacaacact aaggaagagc tttgaaacgg 360
 caactagaga agttttacag taagataagt tgcattgctac agtaatgtcc tagagaaacg 420
 atcaaaagat a 431

<210> 37155
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-038-Q1-K1-A1
 <400> 37155

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tgtcgtggat accatttgcg cttncctttc ccattactaa aaatattatg gtcacaattt 180
gcactttaag ttataatgca gcacagtgtc tcactgtctg agtctacaac aacaacaaca 240
aagccttttt ggtccaagca cgttggggta ggctagagat gaaatcccat atgaaaacct 300
cagagctcaa ccccaaagaa aagaaaaggg agataaaggg caaagagaac ccgaaaacga 360
cgaaacgggg aaaca 375

<210> 37156
<211> 327
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-A10
<400> 37156

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gcacattcag aggatttatg cgttggcagc agcctgggca gcggcatccc gcttcctttg 180
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ctncacgtga atggtctcaa aagctgc 327

<210> 37157
<211> 340
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-038-Q1-K1-A11
<400> 37157

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ctcctacatc gccggcctca tcacgggccc ncccaacgcg caggccgtca ccgtcgacgg 240
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gctcaacccc aaggagggcc tcgccatcgt caacggcacg 340

<210> 37158
<211> 312
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-038-Q1-K1-A12
<400> 37158

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gcttccgtct tcaccaatc agggatgagg atgccaagtt caagctctgc aaggtgaggt 180
ccgttcagtt tggccagaag ggcattccct acctgaacac ctacgacggc cgtaccatcc 240
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agatcaatgg ac 312

<210> 37159
<211> 338
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 37159

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agccgatagt ttgcttcatt gcttgccctgg ttgcttgaca gtgaccatca ttcgtgggaa 300
taatctgaaa cagacaatgg ggggtacaaa tgcatttt 338

<210> 37160
<211> 270

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-038-Q1-K1-A4

 <400> 37160

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<210> 37161
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-038-Q1-K1-A5

 <400> 37161

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 ggcaagtgtt gaatcaattg aacagattgg ctcatggcc ttttccctgt atttatgtgt 240
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 <211> 465
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 37162

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gccaaaaggt accttgagga tgtgattgcc cacaagcagg ccatcccgtt ccgcagggtat 180
tgtggcggtg ttggacgtac cgctcaggct aagtctcgtc actcaaattg gcagggacgc 240
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gaggtaaaag gtcttgatgt cgataccctc tatgtgtcac acattcaagt gaaccaggct 360
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<211> 455
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-038-Q1-K1-A7
<400> 37163

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aattcctgtc gaaccttccc caaccagtcc ctaccgcagc tccgcagatc cttcgatccc 180
cactccctct agccccctgt ctccaggggac gacaccgtcc acaccaggct ctggtggcac 240
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ccaaggttcc aacaagtcgt cgagtccagc ctgcgagagc agcagctcct cagtagacag 360
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<211> 349
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-038-Q1-K1-A9
<400> 37164

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aaggccgaga agaagccgc cgccaagaag cctgcggagg aggagccgc ggcggagaag 120
gccacggcgg ggaagaagcc caaggccgag aagcggctcc ccgcgggcaa gtccgcaggc 180
aaggaggggtg gcgagaagaa ggggaagaag aaggcaaaga agtcggtgga gacgtacaag 240
atctacatct ttaaggtgct gaagcaggtg caccgcgaca ttggcatctc gtccaaggcc 300
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<210> 37165

<211> 192

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-B1

<400> 37165

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gccctgctcc acagaaagct acagctgaag atgatgagct tgctgcactg caagctgaaa 180
tggcattgtg at 192

<210> 37166

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-H2

<400> 37166

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ggaagagAAC gagagcgatg atgatttcaa cgctcgtgtg cgcaatcatg caccaataaa 120
gatgaagtat gacctttaca aggtaaaatg ggatcaatcg aaccgcaagt gtctgatggg 180
gattaagagc tctattatgg atacaatcag gggagcattc ccagcatgta ccaccgctac 240
agagtatctt agtaagggtg agagtcactc tactatctct tcaaaggctt atgcatgcac 300
aataattgaa aggtacttta ccgataaata cactggcggg ggagtaagag agcatatatt 360
gaagatggcc agcatggctt tcaagctaaa cctatggaaa tggcgct 407

<210> 37167

<211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-037-Q1-K1-F9

 <400> 37167

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gaagtccgat cctatggttc tgtgtacaat ggaagaatct ggtgagcata tcattgctgg  180
agctggtgag cttcatcttg agatttgcct gaaggatctg caagaggact tcatgggaag  240
tgctgaaatt attgtttctc ctctgttgt gtccttccgt gaaaccgttc ttgagaagtc  300
ctgccgcact gtcagtagca agtcacctaa caagcacaac cgtctgtaca tggaagcgcg  360
ccccctggag gagggctctg ctgaagcaat tgatgatggc cgcattggcc cacgtgatga  420
tcc                                                                 423
  
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<210> 37168
 <211> 462
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-037-Q1-K1-G10

 <400> 37168

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agaagcgag ctgcggccat ggacgccacc ggcaactggag ctggagggaag ggcgaagaag  180
ggagcggccg gtcgcaaggc cggcgggccc aggaagaagt cggtgacgag gtccgtgaag  240
gccggggtcc agttccccgt cggccgcacc gggcgctacc tcaagaaggg ccgctacgcg  300
cagcgcgtcg gcagcgggtc cccgtctac ctgcgggccc tcttgagta cctcgccgct  360
gaggtcctgg agctcgccgg caacgctgcc aaggacaaca agaagacgcg catcgctccc  420
cgccacgtgc tgctggcgat ccgcaacgac gaggaagctc gg                                                                 462
  
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 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G11

<400> 37169

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agcacgcca agaaacccca agagaagttc gatgctggtg ttcctgagac gtcacgctct 180
tattctgctg cagtccctgc tggtaacaagt agcaagcggc atgctactag gaagtgggaag 240
cgctcgctca gtgacccctt ccgttcacgg ccgcacagtg ctccggaatt ggtgtcagga 300
tgcaagggat caccgcccgt gcctgtggct ccagaggaga ggtagccgat gagctacaga 360
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<210> 37170

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G12

<400> 37170

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ttaatatgtt tctaacgtgt tttatcatcc tataaactct taatcttaga catatgtgat 180
atgtctaaga ttaagagttt ataggatgat aaattgggtga acctaattatt tgtatatattt 240
aattaagata tttttaagct catgtcttgt tttataaagt atagaacaca catttttgaa 300
aagaatactt ttttattata acctttgcgt gtaatgtttt cgaaaagtga atactctttc 360
tgttaagctt tcttttagct atgcgtatgg tgaatgtcgt atgttattga gtgggtgtttg 420
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<210> 37171

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G2

<400> 37171

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tttacaacag actttgaaag agaaagctcg tctattgcag gaacagacat ggttcgtctac 240
gaaatcacac gactactcac acaatgatga tgtatctagc gctgagaagg ctgctggtaa 300
acaggacctg cttagcatag accacaaggc taacgccaaag gacgtccaag aca 353

<210> 37172

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G3

<400> 37172

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gagaagactc acatcaacat tgtgggtcatt ggacatgtcg actctggcaa gtcgaccacc 180
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aaggccgagc gtgagagagg tatcacaatt gatattgctt tgtggaagtt cgagaccacc 360
aagtactact gcactgtcat tgatgcccct ggacaccgtg acttcatcaa gaatatgatt 420
act 423

<210> 37173

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G4

<400> 37173

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 cactggccac ctgatctaca agctcggcgg tattgacaag cgtgtgattg agaggttcga 240
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 caaggccgag cgtgagagag gtatcacaat tgatattgct ttgtggaagt tcgagaccac 360
 caagtactac tgcactgtca ttgatgcccc tgtacaccgt gacttcatca ggaatatgat 420
 tactggcact ttccaagct 439

<210> 37174
 <211> 201
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-037-Q1-K1-G5
 <400> 37174

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 gggccacgga cgaccacttc cttcacaacg ccttcagcac ctacggcgag gtccctcgagt 180
 ccaagatcat tctcgatcgg g 201

<210> 37175
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-037-Q1-K1-G6
 <400> 37175

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acgaagcacc gtctgcactc ggacgatgtg cccta 395

<210> 37176

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G7

<400> 37176

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tcgtgagcgc acaccatgta atcgtcgaaa ttcattccatg tgttgtgaca ttttttgagc 120

acagttgaac atgtgatgga gcctggaggc aagtcattct caaaaaatac tactttctaca 180

ctaaactgat gttgcaacgc gcgcttgacg tcgagatggc catgtcgctg ctcggtgctcg 240

acgtggcgta cttgattggc tatggattcg aggggatcga tgg 283

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G8

<400> 37177

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gcgatgtgta cacacatgtt ctttg 85

<210> 37178

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-G9

<400> 37178

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cgtattcaag ccaaggaaat ggcgcgctac cacggcgtgt ccgcggacac tgaccaagac 120

ctcgaggctg gcttctccgg ccaactcctcc tcccctctga agcccgcggc ctgcgccagg 180

cggcccggcc gcatgttctg cgacccctgc gacgacggcg acgagctcca cggccgccac 240

cactacctcg acatctgctt ccgctgccgt aaactcctgt ccggcaacag agacatcttc 300
atgtacagag gtgacctgcc gttctgcagc gaggagtgcc ggcaggagca gatcgagatc 360
gacgagggcg gagagcagcg gctgaagcag acggtgcggg ccgagcagca gcggcagcgg 420
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<210> 37179

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-H1

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tgagcacctt tggattcaac aagcttgagc ccgaggcaac aacgacatgg aaggagtggc 120
gtgagacgga ttctattatc gttgatcctg aaaatattgt tgccaggctt agacatgatg 180
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tcaatctccg taatctttcc acaagatatg caatgtgtca gagacaatcc ctgaagatgc 420
cctatagaag cttcaggaac a 441

<210> 37180

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-H10

<400> 37180

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ctctctggtc accgtgaccg acgaggagtc gaggcgcac gagcagcagt cggacgagca 180
gaccaaggcg gagatcatgc aagtgtgtcg gaagatgttc cccggcaagg acgtcccgga 240
cgccaccgac atccttgtcc cgagatgggt gtccgacag ttctacaagg gcaccttctt 300

caactggcca gttggcgta accgctacga atacgaccag cttagggcac cggttgggag 360
 ggtatacttc accggtgagc acaccagcga gcactacaat ggctatgtcc atggagccta 420
 tctttcaggg tatcggac 438

<210> 37181
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-037-Q1-K1-H11
 <400> 37181

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<210> 37182
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-037-Q1-K1-H12
 <400> 37182

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 cctgctggtc accgtgaccg acgaggagtc taggcgcata gaacaacagt cggacgagca 180
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 cgccaccgac atccttgatc cgagatgggt gtccgacagg ttctacaagg gcaccttcta 300
 caactggcca gttggcgctc accgctacga atacgaccag cttagggcac cggttgtgag 360
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tc

422

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<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-F8

<400> 37183

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atagcttcat cagacaacac agcctagcta cacaatgtgc agacgacgcc caactaaaag 180
ctcaatctga caacagagcc acggctccca gagacgtcgg cacgtcgcac tagtcaagca 240
gcgctaggat gttgtgctta ggcgcactcg ctgaggggac tgcaggccgt gacctagcac 300
cgctgctgtc aggctcgaac cgcaggcctg gcaagtccgt gtcaccctc gtgctctgct 360
tactgatgac atacagcata accaataagg gaacagtagt c 401

<210> 37184
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-E12

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tgcattggatg ctagttaaagg ttttggtttt tctgaggttg ccaaagcacg tgcagggtgca 180
gccaaagttag tctgttgcca cttctcatct gatggtaagc tgcttgctac tgggtggtcat 240
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cactcgtatc ttatcactga tgtagatatt agcccaagca tgtcgcgcct tgcaacatac 360
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ttcacgggnc cattc 435

<210> 37185
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-037-Q1-K1-E3

 <400> 37185

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 ccggtgccgc gtggcgggca ccgtcgactt cgtcttcggc aactccgccg cggtgctcca 300
 cgacaccgtc ctcgctcgtc tgccgcggca gctgcggccg gagaaggcg agaacgacgc 360
 cgtcacggcg catggccgca ccgaccggc ccagcccacg gggatc 406

<210> 37186
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-037-Q1-K1-E4

 <400> 37186

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 gacagcgagg aggagaggag gcgccgcaag gcaaagacct tcggcaagtc gcgtgcgccg 180
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 ggcagctctg gttaatggga ctccctgaag ctttggcccc cggagtagac gtgtctgtag 360
 gagtgtggtt tgttatatct agattatctg cagtagctta gtccatctaa atgaaatgtg 420
 acagctgaa 429

<210> 37187
 <211> 402
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-E5

<400> 37187

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aaggaatgga acatcaaaat cttcgtccag tgttcgagat gagaagagcc aagagtttcc 180

ggctagtgtt aataggagtg gacatgggtca tagatcttca tttgagcaaa accgtgcttc 240

gacagctctt ccgagcaaag ttgcacatgc agcttcaagg atatcctctc aggcatacc 300

tcagcccccg aaggtagaaa caccagttcc aaagggtggtt ttacctctc agtcacagaa 360

atcccccgcc aaagttgatg caacaccggc taaagttgag aa 402

<210> 37188

<211> 455

<212> DNA

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<223> unsure at all n locations

<223> Clone ID: LIB3069-037-Q1-K1-E6

<400> 37188

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aaccaagggg gatattattg tcttcccatg taggtatatg tatgtgcagt gagtgcgcca 180

aggctctaag gtaccaaacc acttagtgcc cctgcagccc catctacagg cagcctgttg 240

agagtgcct cgagatcaaa gtgaacaaca aatctgaaga ttagtagctg acgccctaata 300

caccaccgct ccagagctg cgggtgtagtc gtgatcaaat tcagggtctga tgtattatat 360

ggctctaatt tgcgagactt caggccttcc ctcaagggtt gntctctcat ttgagcaacg 420

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<210> 37189

<211> 228

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-E7

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gcggcgggga tgaaggcgta ccacgagcgg gtggtggacc actacaacaa cccgcggaac 180

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<210> 37190

<211> 330

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 37190

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accccaaatt agcgagacct agaagaatct tgaaagtgat cgctccagcg cgtgccgccg 180

togtcttctn ctntctcttc tcatcctnct ccacggaaca gacgaggact ggcctagcca 240

agccacgcca cgccaagagc gtatactgta cgtacatcgt ttgccgagca tgtggcatag 300

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<210> 37191

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-F10

<400> 37191

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gacgactagc ggatgctgtt cgacattcag aaagtctaca tcgtgttgat tgaggagctg 120

cctgccaaacg tctctgacct tatgtgatca ttttgaagaa aaacagaact aaatgaacgg 180

tggtgggtgat gatctggtta ggcttggttt tgccgaaata ttgttgggga ggagtgataa 240

ggtcgggtggg gctgctatgt taaagtcgct gtctatggca atatgcgatt tttctttatg 300

ccatgtcatg ggaaattatg tagctgccta cgccttgtgc tgtcgtggtg gttcattagc 360
atgaatacta aagctctgct ggctatg 387

<210> 37192
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-F11

<400> 37192

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ggctaactgg gaatgctgat cgacatttag aaattctaca acatgttgat tgaggatctg 120
catgccaaact tctatgacct tatgtgatca ttttgaatat aaacagaact aaaagaacgg 180
agctgggggat catcatctaa ggattggtct taccgatata ttataggaca tcagtgaaaa 240
tgttgtaatt attgctatgt caaatcgct gtcattatca aaatgcgatt tttatatatg 300
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attaataca 369

<210> 37193
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-F12

<400> 37193

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caaattcttg acaaaagcag tggaagaagc atatcgagga gtcgattgcg gtgacggagg 180
tccatttgga gcacatgtcg tctgtaatga ogaagtagta gtcagctgcc ataacatggt 240
tctgaagcac actgacccta ctgcgcatgc tgaagtaact gcaattagag aggcttgcaa 300
aaagcttggg aaaattgagc tctcatactg cgaaatttac gcgtcctgcg agccatgccc 360
aatgtgctct ggtgcagttc atctctcccg aatcaagagg ctggtttatg gggccaaggc 420

<210> 37194

<211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-037-Q1-K1-F2

 <400> 37194

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 gagtcctgct ggtgccgctg gtacacgagc ccacacgatc gacgtctcag gttttgcgtt 120
 caatagctct attttgtggg atcctgagcg gtggggacgg ccaacgtcat taccagacac 180
 ttcacaggac tcgatcaagt tcgtgcaaga agtgctactt gaagaccgag ctaagctgaa 240
 ggggatecccc tccgactgct ccagatcat ggtgtggcag tacagcgtgc ccagctcgcg 300
 atagagggca gccgagagga cgcacaagag gcgtcgcaac ctgcgaggca ggggaagaac 360
 tgcaaggggt tggatcggag tcgctgtaaa tgtgggtggc gatggtaacg gcaaggtaag 420
 caagaaggct gattactaag gggtcttttt ctctc 455

<210> 37195
 <211> 326
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-037-Q1-K1-F3

 <400> 37195

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 aggggaccaa tgggtcgagc taaaaagttg gcatgcaacc atctatttca tatagcttgc 180
 ttgccgtcat ggttggatca agggctaatt gaaggttact actgtccaac ttgtcggaga 240
 ccggtcttat tgtcatctga aaggcaaaga aagtctacaa ctgctgaagt agcatatgct 300
 catcgaattg ccgaacaact tactat 326

<210> 37196
 <211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-037-Q1-K1-F4

<400> 37196

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ggagtttcat aatctaaata tgatcaaaat cagagcctat gaagataagt gagccattca 120

gaaaataacg aaaggctctc tcaaagtcac cgctatgcat ccgtatcttt catacaactt 180

gcttgccatt atgtgtacat caattgacta atgatgaggc tactttctgac cgacctgaac 240

tggaaaaacc ttattgtcac cggactgaca tccatgggtct acaattc 287

<210> 37197

<211> 400

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-037-Q1-K1-F5

<400> 37197

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gggcgacggc ggcgggcgctt cggaagcccg tggacgtgcc gttccagaag aactacgtgc 180

cgacgtgggc gcaggaccac atccactaca tcgacggcgg gcgggaggtg cagctgtacc 240

tggacaagtc caccggcacg ggcttncaga cgcggggctc ctacctcttc ggccacttca 300

gcatgcacat gaagctcgtc ggcgggcgact ccgcgggcac cgtcacggcc ttctacctgt 360

cgtcgcagaa ctcgagcac gacgagatcg acttcgagtt 400

<210> 37198

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-F6

<400> 37198

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agccaaagtc gggcctcttc gttggcatca acaaggggtca tgcgtcacc aagcgcgagc 120

tgctccccg cccgtgccac cgcaagggga aatcaacgaa gaggggtgtct atgggtcaagg 180

gcctgatcag agaggttgct gggtttgctc cttatgagaa gcgtatcact gagcttctga 240

aagttggcaa ggacaagcgt gccctgaagc ttgctaagag aaagcttga actcacaaga 300
 gggcaaagaa gaagagagag gagatggcgg gcgtcctcag gaagatgagg tcggctggta 360
 cgcacactga catgaagaaa tagagagcat ttcaagttca tggagcctgc cagagattat 420
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<210> 37199

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-037-Q1-K1-F7

<400> 37199

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 tttccaggtg aagttcaaga gaaggcgcgc tggcaagaca gactacaggg ccaggataag 180
 gctgattaac caagacaaat acaagtacaa tacacccaaa tacagatttg ttgtgcgatt 240
 taccaacaag gacatcacag cacaaatcat ctctgctagt atagcaggtg atatggttct 300
 tgctttctgct tactcgcatg agttgccacg atatggtctt gaagttggtc tgaccaacta 360
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<210> 37200

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-E11

<400> 37200

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 gaggagaaat tgattccaac tgcagcccat cagttctaga agaaaaatgt tcaaagaatg 180
 aacatgatgc agtcccagtt ggtttatgtg ggaagggacc acaaaatccc caagcagagc 240
 attcagagga tatttcagtg tctgcatctg aaccgtcgaa cggacctggt gttgtggact 300

ctgaggacaa ggatgaagca gatgaggagt ctgacgatga aggcgaggac gaggaggaag 360
 agaagacgtc atcggcgaag aagctgtggc gtttcctcat cacatgattt atttatcttt 420
 gtcgtacgat 430

<210> 37201
 <211> 323
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-037-Q1-K1-C8
 <400> 37201

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 ttgcagctga ctcatcgcat taaacggcca cagagatgtt tatataatgg aactggcctc 180
 atactaattc atcgagctga atgtatgtct ccatagtctt gcacccaact tcgaactcat 240
 tagctcttta ttgttgcaag acagttgctg tcagactgct atactgtgat gatatgatcc 300
 attctttgtg gacacagaga tta 323

<210> 37202
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 37202

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 tccgccgagg aggaagaagg cgctgctgcc cgccgcgaac gagacggcgt cgggggagcc 180
 tgggtgccgtg ggcggtggtg gtggggacgg cggaagctgc tgctacatcc acctgcggag 240
 ccgcatgctg ttcatggcag cacctcagca gcaaccgtcg gcggctccga caccgcggga 300
 ggctgctggt gcggcacagc agggcgngt ggtggcgctc gcggctggcc tctcgcgttg 360
 ctccagcacg gcgtcgtcgg tggacgtcgg gggccagcag cccgcgagcg ggagccacgc 420
 ct 422

<210> 37203
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-037-Q1-K1-D1

 <400> 37203

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aatgantaaa ctggtggata caataataaa cttgttatta catgcttaag aagtgggcta   180
aatcgctcat tccgtgtgct ccaaaagcct gaacgtgcac cgattagagc attgagggct   240
tcttcatctg gacggtacct tctaattctg tttcgcgatg ctctgttga agtgtgggct   300
atgacaaaga acccatgat ggtccttggc gctttctttt acagtattag aatggacact   360
gtcagctgca ccttcgccag gtcaaaatgc atcatctaaa cagtcttcaa cctccaagga   420
gcgatcagc                                     429
  
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<210> 37204
 <211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-037-Q1-K1-D10

 <400> 37204

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tgaggagtaat aaagaagaaa ttaaatcaaa tcttaagtct atcaaagaaa tggagaaaga   180
taggcaaaat aataaggtct cggaacctga atctaaattg aaaagattgg aacaggatag   240
agataaactt ttagaaaatg aatgtgaagg agatggagga gatgattcaa agtttggttag   300
aaagtgggtc tgagaaagaa gttgaggaac cattggacaa agaaaaaatg gtcagaaaag   360
agaaaaaagt ttctcttaga aaaaaaggaa aaattattcc cccaaaatag gtgtaaacca   420
aataaaggga ggaaacataa acaaaaaaat atcag                                     455
  
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<210> 37205
 <211> 100
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-037-Q1-K1-D11

 <400> 37205

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 agagaaaatt ctctgcacgg tcaatgcagt tttatccggt 100

<210> 37206
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-037-Q1-K1-D12

 <400> 37206

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 gatggcgagt agctcaactg gcccttaccg ccaacgagtg cgtcccatg tgaggggtgcg 180
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 tgctctttct aatctctgtt tctaagttcc agaccgctca cccaagaacc ggtcgccacg 360
 agcttggggc gaccgagcta tccttttctc cctgctcctt ttggccgttc gcccttctc 420
 cttctttgat tctg 434

<210> 37207
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-037-Q1-K1-D2

 <400> 37207

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ttataattca tccgactcaa gcaaggggtcc tcactatccg ggagaacgca aggttacagg 180
gcttccccga ttactaccga ttgtttggcc cgatcaagga gaagtacatt caagttggga 240
acgcagtggc tgtccctggt gcccgagcac tgggctactg tctggggcaa gcctacctgg 300
gtgaatctga ggggagtgac cctctgtacc agctgcctcc aagtttcacc tctgttggag 360
gacgcactgc g 371

<210> 37208

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-D3

<400> 37208

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acttcccttg caccaagcag catgaagatc aaggtcgctg cgccacctga gcggaagtac 120
agtgtctgga taggagggtc gatcctagcc tcgctcagca ctttccaaca gatgtggata 180
tcaaaggagg agtacgatga gtctggcccg gcaattgttc acaggaagtg cttctagggt 240
tctgccaaagt tcgtcaagtg cttttagggt ttgccatgtt catcatcgct acctagtctt 300
aagttatgcc cccttcattt gctgagatat gtgtggcaga tttgcatcgt tttggtattt 360
cgtggctcca tgtgtgagca tgctgtgtcc tataacctgg tttatgagat gag 413

<210> 37209

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-D4

<400> 37209

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gcggcggtac gacggcaccg acccgctcaa gccatctac gtctccgtcc ggggcaagggt 180
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ggacctctcc gggctcaccg acaaggagct cggcgtcctc gccgactggg agaccaagtt 360
ccaggccaag taccctcg 380

<210> 37210
<211> 284
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-D6

<400> 37210

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cccccaactc caaatctcct ttcaaaaaac cttttgaaaa ttctaatacca acttcagta 180
ctaggctttt aaacattacc aatacattcc caaaaaaaaa accaaacaaa accccagccg 240
gatataatac cgctctactg attaacatat ccttttccag gcc 284

<210> 37211
<211> 173
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-D7

<400> 37211

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gatttttgcc acagtggagg ctatatcttc gacacttttt attgcaaac gctatcgaa 120
ctcaaactgc aaatcagcgg tgtgaaaacc ttttgaaaat gaagatccag cag 173

<210> 37212
<211> 442
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-037-Q1-K1-D8

<400> 37212

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cggcggcgcc accgccggag gcaaaggcaa gatgttcggg cgcgcgccga agaagagcga 180
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<210> 37213
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-037-Q1-K1-D9
 <400> 37213

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 tatctgaagg ttttttattt caccttgaat attgactact gacattacca ttaccttttt 180
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 cattcaaata tttgatgtga aaaccataat ttttttatat tttcataaaa aaaatttttt 360
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<210> 37214
 <211> 336
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-037-Q1-K1-E1
 <400> 37214

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cgcgaaacacc ggcacaaagg tgggtggtggc gctgcccac gagcatgtcg cggcggtctgc 180
gtcgcgcgcg ttctacgcgc tgctgtgggt ggcgcggaac gtggcggtcg accacccggt 240
cacgcagatc cagggcatcg ncgtgggcaa cgaggtgttc gcgtcngcca agaactgtgac 300
ggcgagctg gtccccgcca tggccaacgt gcacgc 336

<210> 37215
<211> 412
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-037-Q1-K1-C5
<400> 37215

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caaatgaatt aaacattgca agagatggga agacgaagga ttttctgat ggcatagcag 180
aatgtggtac cgatgcgctc cgcttcgcac tgatatcgta cacctcccag tctgacagga 240
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ccattcgttt tgcgatgggc aaactgggtg atgattacat tccgtcggca actgttgatg 360
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<210> 37216
<211> 438
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-037-Q1-K1-E10
<400> 37216

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cattattgga gctgttggtat gaggatagct tgagaaaaga cacggctctt ccttctcctg 300
aatggtcatc ggatcatata gcgctcctag cagaattccg gtgcaagctt agagtttagac 360

gatgatactt taggaggagc tgtaggggag ggattcttga caatcgcatg agatgatgag 420
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<210> 37217
<211> 455
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 37217

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caacctgagc actatcgtca actactgcgg caagcacttc cgctcgggct tccagtgttt 360
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<210> 37218
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B11

<400> 37218

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gcatgtaaca tcctgctgcc tgcgaatttc ttttctgca cataaggatt tgaacatcaa 180
gtttcagtcg aaccgcagca gtggaaattt gcgcatgtta cattcagtaa gccagaatac 240
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caacaccttg gattggagca tacaaccact accccaaaaa ggtcctactt aggcaacaac 360
cagaaccgcc attcttttga gaaacctgtg aggatttaca actaaagctg ggaatacttt 420

ttacatgtga tgaaatga

438

<210> 37219

<211> 60

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B12

<400> 37219

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<210> 37220

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-037-Q1-K1-B2

<400> 37220

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cgcgacggat aggtggaccg ccgtgacgtg ggcaagatga agcacgggtg cgagcattac 180

cggcggaggt gcaagatcgt ggcaccgtgc tgcaaccagg tgttcccctg ccgtcactgt 240

cacaacgagg ctacggcttc cggagatcgg catacaatat gtcgtcagga tgttgaaaaa 300

gtagtttgcc tactctgtga aacaaaacag ccagtgtcac aagtgtgcat aagctgtgga 360

gtcaatatgg gagagtactt ttgtgatata tgcaaaattt atgatgatga 410

<210> 37221

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-037-Q1-K1-B3

<400> 37221

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gtggaagctg cttcattcgc cagatcagcc catctgtaac tttaccggat caaggtctcc 120

agaatagaag aagggaatat aacttgcttc tttgtatgag ctgatttgag cacaataagg 180
ctttgcttcg tacttgagtg attcaggtgt tactagtcct actgttaaga tgaattgtag 240
ccagagacac ctatttttac ctcaggaagg gatcttttga gcaggtagat gctactacag 300
ctagacgcac ttgcaaagct tctaaatat ggcatctag tgttaacaga gacttatggc 360
gctgtgagca atatngaaa ttggttgcaa tctaattgct tacaatatga tttagatagc 420
gtaagtttct gaagatgat 439

<210> 37222

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B4

<400> 37222

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agggtagatg cgttatgcta cagatcatgt aaattcgacc tgatcgcaac tagagtacct 120
actatataca atgtgaacct acctagactg tttagatcat ctgacataga gcaccactag 180
cttatggatc agacttctat gagtcaggag ttactcttgc ta 222

<210> 37223

<211> 361

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-037-Q1-K1-B5

<400> 37223

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tggaggccat tatcaagaaa ccatgagttc taagtctgca atccctaata ctgatctcac 120
ttaagcgctc gtgagctctc tccagtggct aaagattgca gatttgagtt atagtccaag 180
aaacgggtgg tggcccgcca tggaagtga gtccgagcaa gggctgatgg cggggaagga 240
tctattcggt atgcaaaga gcccgccggc gccggtttcc gggccgctcg cgtncccgct 300
catgcagagc gtgcgcatgg cgtacacctc ggacggcacc gctgtgttcg ctccgatgag 360

c

361

<210> 37224
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B6

<400> 37224

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caaggggaatc tggaagcctc aggagatacc caaccctgag tactttgagc ttgacaggcc 120
tgattttgat ccaatcgctg ctattgggat tgagatctgg acaatgcatg atggcatcct 180
gttcgacaat atcttgatta ctgatgatga gaaagttgcc accttcattc tcgagaagac 240
ctgaaagccc aagtatgatg ttgagaagga aaaggagaac gctgaagagg ctgctgctgg 300
tgcagatggg ctctctgact tgcagaagaa gatttttgac gtgctgtaca agattgctag 360
atattcgttc ttggcaccct 380

<210> 37225
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B7

<400> 37225

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ccggttaccg ggtcacccga tcgagactca atcctgagat gttgaatacc gatgcttctg 120
acgctgactc aattgctcca atggcgacca atagctccac aacgcctgca tcacctactg 180
ataggtacat gcatgcaata tc 202

<210> 37226
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B8

<400> 37226

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 ccggttagac gaagccgccc gcacgcatgg cctccggtga gctcgctgc acctacgccg 120
 tctgatgct cagcgacgac ggcattggca tgaccgccga gaagatcgtc accatcgtga 180
 aggcgggcaa catcaagctc gactactact ggccggcact ctccgataag ctctggaga 240
 agcgcagcgt cgaggatcta atcctctccg atggatctgg tgggtggcgt gctgca 296

<210> 37227

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-B9

<400> 37227

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 cgaccccggt ccggcgatcc ctctgcaccc ctttctttgc gctgccagcc ccaatctctc 120
 gcatacctgt caaccatggc ggcgtcagca ggccggaggcg cgggtgcgcgc gctgtcccag 180
 aaggagcagg acatacagat gatgctcgcg gccaacgtcc acctcggcac caagaactgc 240
 gatttcacac tggaccggaa tgtctttaag cgtggcacca acggcatcta catcatcaac 300
 ctgggcagga catgggataa gct 323

<210> 37228

<211> 404

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-C1

<400> 37228

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 tgtggaaggt gttctgccta tgtaaagct aggaagcaac tgatcgtgca tgaggtgcca 180
 aacattttaa cagttgttct taaaagattt cagtcacgaa aatatggcta gatcaacaaa 240
 tgtgttactt tccctgatat gttggacatg gttgccttcg tgactgggtc tggtgacaat 300
 cccactctct atttctagta cgccgtgggt gtacatgtcg atacagacaa tgcattcattc 360

tctgggcact atatatcata cgtcatagat atgcacggta catg

404

<210> 37229

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-C10

<400> 37229

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tgtgacatgt ggcgctgtcc atggagatgg ggacgccggg tgccaagatg tcgccgcgaa 120

attggcagca gaagccatgg gatcagatcg aaaccaagg tagccgatac cagatgtaat 180

ggtcgctaga tcggtgaggg attggagagg ggtatcgatg ggcaggaaca ccggccgggg 240

gcctctgccc acggccgagc aagaggaggg tttgtccctt ctaattcttg cctactttat 300

ttctcatcca ttgattacat aaataggcta gctagccgtc cctatctaac tagagatcct 360

tatctgctta aaactctctt aaaaactctc aacaactact atctgataac ctctctagat 420

aatctcaact aatctcctag ataatctcaa ctaatcttct aatcttaatc t 471

<210> 37230

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-C11

<400> 37230

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gagcgaggca tcttgctggg tgctgtccat ggtatcgtgg aggctctgtt taggaggtac 120

acagaacaag gaatggatga agagtcggcc tacaaaaaca ctgtcgaggg cataactggg 180

atcatctcga aaaccatctc aaagaaaggg atgcttgaag tgtacaactc tttgagcgag 240

gaaggcaaaa aggagttcaa caaggcttat agcgcacgtt tttacccatg catggatata 300

ctctacgaat gctatgaaga tgtggcctct ggaagtgaat tccggagcgt ggtgttggt 360

gggcggaggt tttatgagaa agagggcctt ccagcttttc cgatgggcaa catcgaccaa 420

actcgc 426

<210> 37231
 <211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-037-Q1-K1-C12

 <400> 37231

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 tactacatag tgactgtaaa aaatcagtcg ttaccgaatt aaagtgatca tcaggacatc 120
 catctttaag aaggcgacgg ttgatggaag atgcacatga gagacgaacg ctctaacagg 180
 tgcacaatct gtatgaccaa tgggacgcac ccatacacgg ttgttctata tgaatggtat 240
 aacagggtac gctctgggag atcgattctg atatcagcgc tctatagccc gctgct 296

<210> 37232
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-037-Q1-K1-C2

 <400> 37232

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 tgtggaatgt gttctgccta ttttaaagct cggaagcaac tggtcgtgca tgacgtgcca 180
 aacattttta cagtcactct taaaagattt cagtcacgaa aatattgcaa gatcaacaaa 240
 tgtcgtactt tcctgatat gttggacata gttcccttcg agactgggta tggtgacaat 300
 tcgactatct atttctagta ctccg 325

<210> 37233
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-037-Q1-K1-B1

 <400> 37233

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cggcccgacg gccggcgacg cgctctccag ccacatgggt gtcgacaagc ttgcgttcac 120
 gggatcgacg ggcacggggc agatcgtgct cgagctggcg gcgaggagca accttaagcc 180
 ggtgacgctg gagctcggtg gcaagtcctc ttctcatcgtc atggacgacg ccgacgtcga 240
 ccaggccgctc gagctcgcgc accaggcggt cttcttcaac cagggccaat gctgctgcgc 300
 cgggtcgcgg acgttcgtgc acgagcgct gtacgacgag ttcgtggaga agtccaggcg 360
 cgcgcctga agcgcgtcgt 380

<210> 37234
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-C3

<400> 37234

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 gtacgattac ttcttggaga aagaaaagtt acacaaattc agttttgctc aatctaggtt 120
 taatttcata acttctcgag ttatggttcc tgtttttaac gtttgggttt tactaaactg 180
 cttctgattt aatatctttc tgggtctcact cttagtcttc gttcgacctt tgcaaaatta 240
 gatacaattt tctgctcggt ccacacaatt ttgctcctct cttggtgggt tagatgtgag 300
 tttccttaga tcaatacgtg tagcccaagc acattaaagt caacatccat gttgcttgg 360
 catacacaaa ggtagtctt tttt 384

<210> 37235
 <211> 169
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-037-Q1-K1-C4

<400> 37235

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 cggagctgca ggaagcgctt cgatggacac aaccgtcgnc gtcggaagcc gcagccggac 120
 cctctaaacc ccgcgggctt gtttggcaat caccacggag tgacaagat 169

<210> 37236
<211> 132
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H2

<400> 37236

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atgtgatgta cgagtgtgca tcttcaagaa tctttaagtt gaatgggtccc ataataatat 120
tgataacaat gt 132

<210> 37237
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H3

<400> 37237

cccacgcgtc cgcccacgcg tccgaaatat aaatataaaa aaaaaaaaaa aaaaaaaaaa 60
gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaaag aaaaaaaaaa 120
aaaaaaaaaa aaaaaggaaa aaaaaaaaaa aaaggggggg cgttttttaa ggtcaaaatt 180
ttggatacgg ttttataaaa taaagatgga aaaaacgtgc ctttaaataa aataacaggg 240
gcgcagtata tacacctttg gacaggtgaa aaccttgggg 280

<210> 37238
<211> 79
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H4

<400> 37238

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gcaggttcta cgggcggggc 79

<210> 37239
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H5

<400> 37239

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agatgacaag agaaacactg agagttcaga agcgggaagga caagtcaaca gtggagatag 120
taatacagaa gctaataata ataagaatga agatgaaacc accagtcttg tagaaggacg 180
caagcatgat actgaatcca actctgctgc tgagagtaaa agtgaagtca attcaactgg 240
agatgaattg tcccaaaaca atcatgcaca agaggaaaac actagggagg caagtggaat 300
gtctcatgat gaaatagcgc atggtgac 328

<210> 37240

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-036-Q1-K1-H6

<400> 37240

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tgattcagtg tggcaactgg aagaaggctc atactatttt cgtgacttct gttgctcatt 180
ctatgtttct gtcactaac catcaggagg tctggaggat cacaagtgcc ttggagaacc 240
acaagtatga aattgctgac tgggaccttg gtgccggaat atacatagac ttctacattc 300
tgaagaactc aatgcaagaa agaaatgcc aaggatgattc ggattcactc gaggagatga 360
gtgaatcatg cagaagtttc tttggccgac taaacgaatc gntgttagtc tggggaagca 420
aattacctgt tgagtcaagg gcatgcta 448

<210> 37241

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-036-Q1-K1-H7

<400> 37241

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aaatggggcc tgctgttcca cggcgagggc gtcggaccgg agcgagctgg cgggtaaaag 180
cgggggcttg gcttggagag cggcggggag aaagggcgcg ctgcttggcg tcaccggagc 240
tgggcgaagc cccttctttg gcggccgcng gaggcgtatg gacaagggca ctagccgggt 300
cg 302

<210> 37242
<211> 325
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-036-Q1-K1-H8
<400> 37242

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caagtgtgaa ctgacagac aatgggtggc tctctgtgtc ttcgtctcaa aatccagttg 120
tggactgtgt ttctaggaga gaggatcccc ttcgtgattg gggcaatata gcttgcagtg 180
aaggaataat tggatgtgac cataccacca ccgataatga acacataaag ctagcacaca 240
ggctgcacga taatgttcaa atgaatgtac ctgtcatagt tgaagacgtg actgataatg 300
tgccttcagg cattccatca tcgag 325

<210> 37243
<211> 322
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-037-Q1-K1-A1
<400> 37243

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gtgccgtcag cacagcagat ctagcaattc caggtggtac aaaagggttt ttcataca 120
agtggtcacc aaaagaagaa ctgaaacata aagatgggtg ttgcttctac gttttaccat 180
tgaggatatg atggtaaact gaagtcattg attatgctat gcattcagaa gatgatgcta 240
aactgaataa gcacattaat ctgatttttc tatgcattga gactatgttt gtattattgt 300

tatgcaatgc aatctatgca ct

322

<210> 37244

<211> 470

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-037-Q1-K1-A10

<400> 37244

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catttatatc catcgaagtg cgggtgcttgt gtcacaattg aacctgtgtg ttgtgcattc 120

ttcctaagag aagggggtaa ctattttaag cccaagtaaa tgacacacaa gtaaacadat 180

atatataaac ttcttttgct acacaccttc tcttatttcc aatttcttta gcttcctccc 240

ncagcatgtg gctctccacg ccgctattct taccacgttt tcttctatat ttgataagat 300

tggcctgctt cttactgtta tcaccagggt cgagaaagga gaggacctta cctgaggaa 360

tggatatatc ttgaaagatt tgctgaacaa gcttctcctg cctactacag ggatcaagt 420

ttggtacgat aaggatcatat aggccttca tgagagccct ttggtggttc 470

<210> 37245

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A11

<400> 37245

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tgaagacaac ccgatataa aggatctgca gaatgcagaa actttgcgca agttcgtcga 120

tcctcggagc atcgagacac agacaaaccc gatcgaccgg tctatcgctc tgctactttt 180

ccaccagtca tcggaccatg cggctgtggc tgctgacgat gctcatcac ttaaaccctc 240

tgctggtagc aaacaacacc agggccctgc tgctaacc aaaccaaggcc tgatgcctga 300

ttcatcggtg tattccctcg gagatggggc cccaaggat gtacagtccc tggacaagtt 360

ctgaatttat gtccctgctc tccatgacct agttaagggc atgttcgggt ccccggaat 420

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445

<210> 37246

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A12

<400> 37246

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ccaagccgat tctccctgag tagcttccgt ttgacctctg tgggacgcat gattaccgcg 180

acaatgggtca aggccctgga gtacgttggc cttgctccgc agggcagtga gaggtctctt 240

aatttcctgg agaaggctgc agaagggctg gtagagggcg gaaagaagga gatcttcacg 300

ccaatgtact tctttcttgt tcggaagcct cttctggaat gagctcttgg atcacctttt 360

cagagagaga aggcaagtgg tcatttcgaa gaagccgagg agaggggaacc tggaatcaag 420

aaaaccttca gctctcctgt gtaggaggaa ag 452

<210> 37247

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A2

<400> 37247

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ggcagggctg gacatgttag aaacatctct tgttgccctg caagacctga cgctagacia 120

gatcttcgac gagtcaagaa ggaaagcact attctcagac atctcgaaac taatggaaca 180

gggctacgcg tacctgccgt caggcgtgtg catgtcagga atgggcccgc atgtttcttt 240

cgaccaagct gtagcgtgga aggtgctcgg cgaggatagc aacatccact gcctggcggt 300

ctgcttcgtc aactggteet tcgtgtgact gaagtccaac ccgtcgggtg gttatggcga 360

gctgaccca tttttttttg tatggaaaat ca 392

<210> 37248

<211> 120
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-037-Q1-K1-A3

 <400> 37248

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 cgtgccgtct gcacatctga tctagctatt tcagttggta caaaaagggg gcgctcgtca 120

<210> 37249
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-037-Q1-K1-A4

 <400> 37249

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 tcagattatc cgctcatgac acaagatgac atacttcatg tcttctcttc ttgccaaga 180
 aatcttaatt atatagagca ctttcngtta tctggatgga aaggtaatat aagggcaaaa 240
 ccaattgttc tggaccagg gctctatctg tccaagaaat ttgatcttac tatgactact 300
 gagcggagag aattgccaac atctttcaaa ttatatactg ggtctgcttg gataatgctt 360
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<210> 37250
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-037-Q1-K1-A5

 <400> 37250

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 gtggatcaga tgaagctagt aatgaacaga ccagcgtctt aggcaagaac gcttctggtc 180
 gcaaagatcc ggataaacia gagaaagcgg cggaggctac taagggcctg aaggatacag 240

agggattcac tgctgtttca aaacgccgaa ggcgttccca gccgttcatg aaccccataa 300
atggcctata ttctcagccg tctatttgca cctctgtcag ttaaggcatg tgcgttttcg 360
aagacctgca atattttgcg agat 384

<210> 37251
<211> 283
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-037-Q1-K1-A6
<400> 37251

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ggcagacgca tcggccatgg catgggccgt ggctaccgca aacgtggagg gatcgaccat 120
ggcatcagcg gtggctatgg aaaaagccgc agccttggtg gtggatatgg caaagggtggc 180
ggactccgag gcgacattag ccatggcatg ggtggacgcc atggcaaagg tggtcgaatt 240
gagcatgaca cgggtggaag attcggcaga ggccgcagtc gtc 283

<210> 37252
<211> 284
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-037-Q1-K1-A7
<400> 37252

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tggcagacgc atcgcccatg gcatgggccg tggctaccgc aaacgtggag ggattgacca 120
tggcatcagc ggtggctatg gaaaacgcag aggccttggt ggtggatatg gcaaagggtgg 180
cggactccga ggcgacattg gccatggcat ggtggacgc catggcaaaa gtggtcgaat 240
tgggcatgac atgggtggaa gattcggcag aggcgcagtc cgtc 284

<210> 37253
<211> 230
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-036-Q1-K1-H12

<400> 37253

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tgctgacggt gctcttcaga ctccaccgat ggcgatcaag aacatgacgg cggcggcgac 120
gacgcggtcg ctggacgcgg acatgacggt ggacgagttc aaggagtggc tgcggcggtt 180
cgacacggac catgactggc gcatcattcg ccacgagctg cagagcgccc 230

<210> 37254

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A8

<400> 37254

cccacgcgtc cgcggacgcg tgggctgcat atcaggtggt tcctctatag gatacaccat 60
gtgtggagtc tgcaacaagg ttctagtctc aacttgcaca tatggtggct cttgcgagtt 120
gtgacatgat cgtctgacat caaagcgtga aagacgttaa taaatctggt caggagaagc 180
agtcacctag cgtggcaagc ttggaattga caatgagtga tgtggacact ggtagatcta 240
gtagcaaggt caaaggatga tttcttttac caagtatgct tgcattcgtg aagcaaatca 300
atgatacatt atttagagcg tgattg 326

<210> 37255

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-A9

<400> 37255

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gaaatgcacc atgaggctct ccaggaggcc ctctctgggtg acaatgttgg cttcaatggt 120
aagaatgttg ctgtgaagga tctgaagcgt gggatatgtgg cctccaactc caaggatgac 180
cctgccaagg aggctgctag cttcacgtcc caggctcatca tcatgaacca ccctgggcag 240
attggcaacg gctatgcccc agtgctggac tgccacacct cgcacattgc tgtcaagttt 300
gcggagctca ttaccaagat tgataggcgg tctggcaaag agcttgagaa ggagcccaaa 360

ttcctcaaga atggtgatgc tggatggtg aagatggtc ccactaagcc catggtagtg 420
gagacctttt ctga 434

<210> 37256

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F5

<400> 37256

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attaaaaagt tgtcaaataat cctctccaac ttgtaagttt gtgcagtcaa gaggaactat 120
gtatcggtc cccatccagc gtttttctca ggagaccgga ataaattgga tgcattagta 180
aatttagaaa ataaaggctt ccagatgagg aagcggttaag agacaaagaa actattaaaa 240
atgattggtt ggtagaaat agtttgaggt ttccaatgc ataattgttt agtaggctat 300
tatagcagac tagagaacaa taaactttaa gtttgctatt ttttttttgt taacttgcta 360
gatctgt 367

<210> 37257

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F6

<400> 37257

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catcttctcc acgcaggacc acgcgccgc cgccatcgcg cgcgactcgg ccgctgtgtt 120
cgcttgaag ggggagacc ttgaggagta ctggtggtgc accgagcgtt gcctcgactg 180
ggcgaggcgg ggcggccccg acctcatcgt cgacgacggc ggcgacgcca cgctgctcat 240
ccacgagggg gtcaaggccg aggaggacta cgagaagacc ggcaagatcc ccgatccgga 300
gtccaccgac aacgctgagt tcaagatcgt gtcaccatc atccgagacg ggc 353

<210> 37258

<211> 295

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-036-Q1-K1-F7

 <400> 37258

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 catcatctgc aggcaggacc acgccacggc cagcatcgcg cgcgactcag gacgcactat 120
 gagactggaa ggcggagacc cgtgaggagc actggagggtg caccgagcgg atcctagact 180
 ggagcgagac gagcggggcgc gcactacatg gacgaagcgg gagacaagcc acgctgctca 240
 ccacaaggga ggcaaggact aggacgacta cgagaagacc gtcaagatgc ccgag 295

<210> 37259
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-036-Q1-K1-F8

 <400> 37259

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 attcatcaaa tgatggagct tgcggctttg aaaaagttga tgcttgctcg acccaatccg 120
 gttaagctga aggaaacttt atgtgaagct aaactgagct tatctaatag ccagactct 180
 gtgttgaatc aatcaagctt gttaataagc agctcaagtc ctgatattgg cgagcccagt 240
 gacaaaagtgc aggtggattc ctgccaatc ttgataagca gtcacatggg tgattgtagg 300
 gtctcaggtc ctgacagcag ttcgttgaat acttgtgcta atagaaatgt ctcttgtaaa 360
 gcacatgatg aagagagctt ggatcangcc ttaataatca aacatgacag tgggatgatg 420
 ccttctagta atcagacatc at 442

<210> 37260
 <211> 125
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-036-Q1-K1-G1

 <400> 37260

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 gggaggaggc gatagacaat tcaatggtct tgtggatgtc taccgcaaga cactcaaattc 120
 tgatg 125

<210> 37261
 <211> 335
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-036-Q1-K1-G10
 <400> 37261

cggacgcgtg ggtgaaagga aggggtaatg ttgtggaagt aagtgaaaag agtttggtta 60
 aagctatagc tgcagctagc agtgagaaca cacagccggt gtcttctgca tcagcagaga 120
 aaagtaaggc aattcctcgc ggtgattcgg ttggtgatac tttggcaagg caactgggag 180
 tccagattgc atcttctgat gaacaggcaa aagctgccga ggacttcaag aagactttat 240
 atggtgttgt tgatgatgga agtagtgatg aagacgagtc aacctcaaag actaaaaaga 300
 tacatataag gatacgtgat aaaccggctg cacct 335

<210> 37262
 <211> 250
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-036-Q1-K1-G12
 <400> 37262

cggatccgca acgagctgga catgaacgtt cgctgggcg ggcattgaagg acggaggggg 60
 tagctataat tatagacgat gaatatagac acacatcatg ctgagatccg caccagtata 120
 gaaaactaag ctgcacgcct gtctgtaatt cggatgtaga aacatctaca aggcattcat 180
 gaatacagat tgcaaaatct gaccatcatt tcaaaatatg cagagaactc tacaacgact 240
 acatctgcac 250

<210> 37263
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-G2

<400> 37263

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ctcgctgcca acgcgttcct ggacacagagg atctcctctg tgaacgccat ctccgccttc 120
tgcgaggcca ccggcgcgaa tgtgactgag gtggcttacg ccgtgggcaa ggacacgagg 180
attggcccca agttcctgaa cgccagtgtt ggggttcggtg ggtcttgctt ccagaaggac 240
atcctgaacc tgggtgtacat ctgcgagtgc aatggcctgc ccgaggtggc caactactgg 300
aagcaggtga tcaagatcaa cgactaccag aagagccggt tcgtgaaccg cgtcgtgtcg 360
tccatgttca acaccgttgc cggcaaga 388

<210> 37264

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-036-Q1-K1-G4

<400> 37264

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ctatgtagtg atagcatggc ggctagtgga atagaaactg gtacaaaatt gtacatttca 120
aacttggact atgggggtctc taatgaggat ataaaggagc tgttttcgga agttgggtcat 180
ttgaaacgct ttgctgttca ctacgatggg tatggccgcc caaatggcac tgcagaggtg 240
gtgtttacac ggaggagcga tgcaattgct gcactgaagc gttataataa tgttctactt 300
gatggaaaag ctatgaagat agaagtcacg ggaaatgact tangattgcc tatgacacct 360
cgtataaatg gttgtggggc ttctaattgc agagctacca gaacagttgg tatgacgcct 420
gagtttagtc aacgtggc 438

<210> 37265

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-G5

<400> 37265

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 tgcagcgcgc gtggtgacct accacaggca cactgaccgg ctgccggctg ggatactgag 120
 agactgcatg tctttttccg tgcgcgcgcg tggaattcgc acggccctac cactgagcacg 180
 tgccgtacgg ggcgtcagcg cgtgctggat cgaagaggga tgcgagctga gagagcgcgc 240
 ctgatgagag gctgagacga gacctgatgc ggcccacacc tgcacgtgtc cgtataatct 300
 gttcagagtg ttcgtaatcg atcttttcaa atttttctc 339

<210> 37266
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-036-Q1-K1-G6
 <400> 37266

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 tcctgcaata atggccgctc gtcctcctc ctcccagccg cagctggctg cggcggcggc 120
 ggtcctggca gcggcgctgc tgctgctggc ggcgggggcc gggacggcgt cggcggcggg 180
 gagctgcggc gaggtgacgt cgtcgggtggc gccgtgcctc gggtagcgca tgggcagcgc 240
 ggcgtcgccc tccgcggcgt gctgcagcgg ggtgcgctcg ctcaacagcc gcgcgtcgtc 300
 ggcggcggac cggcaggcca cctgcaactg cctcaagagc atgacgggcc ggctcggcgg 360
 cngcgtcagc at 372

<210> 37267
 <211> 267
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-036-Q1-K1-G7
 <400> 37267

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 tgcgtcaact gcgccgatgc gcactatgag ctacatgggtg gtgctagttg acgtctgtag 120
 atataaggta ctggccaatt cgtcatgcga cggaatcacc aagctgcgat gctacaacca 180

cagcagcaat cgcttggaact cctgatggta caagacagag ctgctctacg acgtcgacgc 240
 caacgtgatc aaggaggagt tcatgca 267

<210> 37268
 <211> 420
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-036-Q1-K1-G8
 <400> 37268

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 gaggccttcgg aactgtttat aaacttgcaa tggatgatgg caatgtcttt gctttgaaaa 120
 gaatagtga aacaaatgaa gggctagatc ggttctttga tagagaactt gagatattgg 180
 gaagtgttaa acatcgttac ttgggtcaatc ttcgtgggta ttgcaactct ccttcatcaa 240
 aacttttgat atatgattat cttcaagggtg gaagcctgga tgaagtgtct catgaaaagt 300
 ctgaacagtt ggattgggat gcacgtatta acatcatact tggagctgca aaaggcttgt 360
 cttacttgca tcacgattgt tcgcctcgaa taatacatcg tgatatcaag tcgagcaaca 420

<210> 37269
 <211> 332
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-036-Q1-K1-G9
 <400> 37269

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 gtttgagatt gtaaattttt atgttggttg agcttctggg ctaaatatca caatggatat 120
 agctccctat actggaatta gctttgctgc tgatcaagtc aaggcaatga attattcact 180
 tactctgcat acagttcgga ttgatcctgt gttggtcggg gactataatc ttcttaattt 240
 aacttgggtc aggtcattgg ctccagctcc agctccagca ttcacaatgg cacctagggc 300
 ctctccatct acagcatcta cttttccaag ac 332

<210> 37270
 <211> 368
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H1

<400> 37270

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agttcgcagg cggcccgcc ggcgactacg accctaccac cggctgcac acgcggttca 120

accagctcgc cgagcaccac aaccacatgc tgaggatgat gctgagggag ctgcggacca 180

agtaccgcag gcgcaggccc ctacccctcc actacgccga catctaccgc cccgtgatcg 240

aggccgtcgc gtccccgcc tcgtacggt tcggcgacac gccgctggca gcgtgctgcg 300

ggggccgtgg cggccccaac aactttcact tcacgcctt ctgcggcacg ccggcgtcga 360

ccacgtgc 368

<210> 37271

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H11

<400> 37271

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atggatgcct ggatgcttca ctccgtacag aggacctgga ggtgtggttt gttgtatgtg 180

cgtggtcact ctttggccag gctgctgtgt attatttctg ctaacatggc ttatcatcag 240

ccgacggtcg cgactgattg gaggcctgcc tcacttgtag ggttgtagca tgtacatctg 300

aacgggtgat ggaacggagt gagtctaaga tct 333

<210> 37272

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-036-Q1-K1-F4

<400> 37272

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acagaaggga cttgatcaag caggcactgg agcagcgcaa ccgatttgca tcttcccaca 120
 ttgcttacat tgagtccttg aagcgtgttt cgggtggctct ccaacgggtt gttgccggag 180
 atgatcacca tgagctaata ttcgatacat tcctctcccc tatcaagcaa cagaagccag 240
 agatgcttgg tctgccttat ggttcatatg agaagagaac tattcatggt tcaagatacc 300
 tgaggtcagg gcctaacca tcagtgtcca ttgaggagca cccacgtncg gtggaaacag 360
 tccgtgtcga gtcaaattac cctatggaca acgacagtgg catgggtggat aga 413

<210> 37273

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D9

<400> 37273

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 aaccacaaaa acaagcagca tctgttatgc gcagagcatc atctattgct gctcggcaag 120
 cagcaatggc acagcaatct caggagacta aaccggtttc atcttcgccc aagatcaagc 180
 gtcaaacatc agtgagatct ggttcagtgg catccataaa gcctccggta gctgcatcca 240
 caccaaaacc tggcggtagc ccaaataaag gcgagggtcaa acctgctgcc ggcccagttc 300
 aaactccaac cacagggtgcc gattcatcaa ataccggg 338

<210> 37274

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-E1

<400> 37274

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 cttcgtgatg acgatgaaaa aggtgaaaga gggaaacgggt acagcccaga caggagaggt 120
 cgtgaaagat ccccaggtag aaggcggttct cctagtcctt acggtagagg acgggagaga 180
 ggtagcccag attacgggag aagcaaggag agggggagcc cagactatgg caggggagga 240
 cgcagccctg ataatggcag gggagtaagc ccagctggtg gtggcagagg cgatcatgcc 300

aggggtggag ggcgcagtcc tgactatgat

330

<210> 37275

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-E10

<400> 37275

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catccactca tggctgtcga gcaatcagat gcagcgcgcg acagctacag gcggcttgcc 120
aggggctcac atggttgcaa caggccaatt ccgcacgcca gcgatgaacg caatggtcca 180
ggaggcccat aggcatttgg ccagggaagc atctgccccat gatgcgggga catcaattgt 240
ttgcaagcgc gccgtcgagc ttctagatgg gataaacaag cgattcgatc tctggtgcaa 300
gctggaccag gaattgccgc gcacgaacca acc 333

<210> 37276

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-E11

<400> 37276

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cgtcgactaa tggttgacag gcaatcagat gcagcgcgcg acagctacag gcggctagcc 120
aggggctcac atcgatgcaa caggccacta acgcacgcca gcgatgaacg caacgctgca 180
tgaggcccat aagcatctgg acagcgaagc atctgccccat gatgcgggga catcaactgt 240
atgcaagcgc tccggccagc tgctagatgg gataaactag cgagacgagc tatgctgcac 300
actacaccac taatagccgt gcacgaacc 329

<210> 37277

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-E12

<400> 37277

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atataggagt aaaaacaaga cgtaataaaa aaggatcgac gcggaaagtt ccgattgaaa 120
taggatctaa acaaggaaga gcacttgcca ttcgttggtt attagaagca tcccaaaagc 180
gtccgggtcg aaatatggct ttcaaattaa gttccgaatt agtagatgct gccaaaggga 240
gtgggggtgc catacgcaaa aaggaagcga ctcatagaat ggagaggca aatagagctc 300
ttgcacattt tcgttaatcc atgaacagaa tctagg 336

<210> 37278

<211> 415

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-036-Q1-K1-E2

<400> 37278

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aggtaacgac ttggcttgcg aatatcagct gatctgcact cgggaaatat cagagagctt 180
gtgcagaaaa ggtaacagtt atgggcttat ggcagatgca gtagcatgag atgtcttcat 240
aattgttgtg tacatcaggt tcagtggtag ccccatcgtc aagctggata cgagtttggg 300
aaaggtaact gtaaatacgag aaaattgtaa attgattagt gagctcactg cagcaatagt 360
tgtttttcta cgtntcatct gggatttggg atgaaccacc ggaaggattt ccggt 415

<210> 37279

<211> 357

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-036-Q1-K1-E3

<400> 37279

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cgccgactcg gctaccgccg ccgccctacg gaagcttccc aggtcttcgt caggcttttc 120

tccggcaacg agcaccctgc acagatcgtg aacctncaca cctcaacgat agatggcggg 180
gttcagaagc cttgcaccca agaccaggaa cctgggtggtg gccgggggac tgtctgcctt 240
cgtgctcggg gtctactact acaccatgag agcgggtggga ggcacggacg agctacaggt 300
ggcgatcgac aagtttgagg agacgaaaag caggatgctg gtagaaactt cagcttc 357

<210> 37280

<211> 309

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-036-Q1-K1-E4

<400> 37280

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cagtcgatca caaaccaatc gcggagaggc aatcacgtac gtatacacac gggcacgtaa 120
ctagctatct agctagcagt cgtagagtga cgatgagggg tctctctgtt gcggtcgctc 180
tggtcggtgt ggtggccgcg gcctgcctcg ccgcgccgcg gggcgcgac ggggcggncc 240
agtgcggggc gacgcctggg gacacggtgg cgctgaggct ggcgccgtgc gcgtcggcgg 300
cggggggacc 309

<210> 37281

<211> 363

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-036-Q1-K1-E5

<400> 37281

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ccacggcctg gcgtcgctga tgaacccggt cacggcgagg tcccgttctc ttgggtactg 120
cgcgccggag gtcgctgaca cgaggaaggc gtcccagtc tccgacgtct acagcttcgg 180
cgtcttcgtg ctggagctcc tcacggggaa gtcgcccgtc cagataaccg gcggcggtgg 240
cggcgacgtg gtccacctgg tgagatgggt gcagtcggtt gtgcgggagg agtggaccgc 300
cgaggtgttc gacggcgagc ttctgcggta ccccaacatc gangaggaga tggtagagat 360

gct

363

<210> 37282
<211> 404
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-E6

<400> 37282

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tgcgcgccgg aggtcgcgtga cagcaggaag gcaggcgagt ccttggacgt gtacagcttg 180
tgcgtgttcg tgctggagct cgtcacggcg aactcgcccg tgcagataac cggcggcggt 240
ggcggcgacg tgggtccacct ggtgagatgg gtgcagtcgg ttgtgcggga ggagtggacc 300
gccgaagtgt tcgacggcga gcttttgccg taccccaaca tcgaagagga aatggtagag 360
atgctgcaga tcgcatggc gtgcgtgttc aggaccccc gagc 404

<210> 37283
<211> 319
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-E7

<400> 37283

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tgtctgaacg agcccgagaa atggaacatt cccgacgacg aggtggacga catggatgat 120
tgtacactgt tctctgaatc cttttccatg tgattgtagc ctcatttttt tccattttcc 180
ttttagtgtg tgctatgttg gcatgccgtt cttggcatgg gatggaggca ttgagctatg 240
ttttctggtt tttttgtagt cttagatgac tggattttaa tcatgcgata tatatatgac 300
ggngattttg ggatgtaaa 319

<210> 37284
<211> 331
<212> DNA

<213> Zea mays
 <223> Clone ID: LIB3069-036-Q1-K1-E9
 <400> 37284
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 ggttggtccag gagttcacag ttgatctcaa caagccctt gttttccagg ttggccatct 120
 tgaggaacgg taccaggaat gggttcacca accgatcgtc agcaaggagg gtccacgctt 180
 tttcggaaat gatgtcctgg agttcttgac tcgcacgaag tgggtgggctg tgccaactat 240
 atggctgcct gttgtctgct gcctgctcgt gaaatctatt ctgatgggctc atactgttca 300
 ggacgtagct atgatggctc tgtttgggat a 331

<210> 37285
 <211> 327
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-036-Q1-K1-F1
 <400> 37285
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 acggcgccga cgacaatggc agcaacaagg gtttccccg ttcttctctt gctgctcacc 120
 gtccagctca gcttgccttt ccgcctcccc gactccccct ccaccctcgc cctcgccctc 180
 gccgcggaac cagagcaaca gaacgccaag cagcatcgcc agcccgcgct gctgggtgcag 240
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 gncagctcca ccgncgacgt cccgggc 327

<210> 37286
 <211> 334
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-036-Q1-K1-F11
 <400> 37286
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 gacaaaaaag caaaggctat gtcagatttt ggggatgatg aatataaacg aatgggtatgc 120

gtggaggcgg ctgctattga aaagactgtc actctgaagc ctggtgaaga gtggactgga 180
aagttggaac tttctgctgt gccatctagc tattacagtg gtcagctaga ccctgaccgt 240
gtgattcagg attccactgt cccggaggac tccatcagct agtccttatt ctatTTTTgc 300
aggtagagca ttgtatcatt atgcataaga gatg 334

<210> 37287
<211> 119
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-036-Q1-K1-F12
<400> 37287

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cacgatcacc atgtaatttg taaaatgggg ctactgttac tgtaataaag gcacatgtc 119

<210> 37288
<211> 423
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-036-Q1-K1-F2
<400> 37288

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tctccttcaa gagatggatg cagcaaaatt atgtagaatg gattcatgtg atgggcaata 120
taatttgtgt ggacggaat caacatctgg atcacttgca caaacattc aatccagaaa 180
aaatgggggt gagcatggtt ctgagcaact gcaaaccctg gatcgtgttg actctttaga 240
tggcttccag aagcatgaca gtgaacattc tcttttaaaa acttctcaag tatcgccaaa 300
gatacagcat gccgctgaaa tcttatgtga tatgagaaga agcattgaat cgttgagtgg 360
ccaaggatac agcaatgggg tgattaaatg gccaaaatca ccatccgaaa aggtgatgaa 420
agc 423

<210> 37289
<211> 174
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D8

<400> 37289

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gcttacctct gtgccccagt cgattcgcgt gagcctttct tggaaggaac gatcgaacac 120
acctgcatga tgatcaagcg cgcgcgcgtg cagagcggcc tgatcgagga ctat 174

<210> 37290

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-C11

<400> 37290

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ccgcagattg caagaagagc aatcgaccta gcagagagga ggctgttgaa ggatggctgg 120
ccggagtact atgatgggaa gcttggctcg tatgttggca agcagggcag gaaattccag 180
acttggcca tcacggggta tttggtcgcc aagatgctgt tggaagatcc ttcacatctt 240
ggcatgatcg ccctggaaga ggacaaggcg atgttgaagc ctgttttgaa gcggtccgcg 300
tcatggacaa attgagatgg tgacgaaaat tt 332

<210> 37291

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-C12

<400> 37291

ccatagggct atttataagc cgcattggctt cagggaataa atcaaacaag atcattatca 60
aaccaatctc tctctccctt gcaatgacct tctcaagcgc ctagggtgc taccctagaa 120
ccaagcctat agcagagggg tataacctcg ccggagaaga caactatccc catggaccga 180
aggtccatga cacctggtat cagctccagg ttatcctcac caccaccagc cgcccatccc 240
tcaccaccac cagccgccgc gccatctgcc gccgcaacgc cctcccaccc gccctctcca 300
actccagatg cattcactcg gctcgaagag aagtg 335

<210> 37292
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-036-Q1-K1-C2

 <400> 37292

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tagtctaggg gacgggagcg caatccacgc acggcaacat ggacgccatc cgcaagcagc 120
tcgaccagct catggggggcc aaccgcaacg gcgatgtacg ggagggtcagc cgcaagtact 180
atgatcgcca cgtctgccgc ctctacctcg cgggcctctg cccccacgac ctcttcacgc 240
ttaccaagat ggacatgggc ccgtgcccga agctgcactc gctgcaactg cgcaaagagt 300
atccttccaa gtgaacagnt actntatctt gtgtatntgn ttgtgggggt tagtttttga 360
gtcaggctta atgtgtaaaa gccaatccaa cgattcataa cattacattt gatttttttg 420
tctgcttaa                                     429
  
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<210> 37293
 <211> 111
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-036-Q1-K1-C3

 <400> 37293

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tcggctacgg cacgatatgg ctggacacat accagatcat cgacgccaac c 111
  
```

<210> 37294
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-036-Q1-K1-C4

 <400> 37294

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aaacccccga tgtcgtccac cagttctaca gcgaagccag caccatgggc cgcgtcgacg 120
 acctcaccgg caccgaccgg gctgccaaca acatgatgga catacactca ctcatcatgt 180
 ctttgaactt caccctaaatt gagatcaaga ctgccaattt tgtgaactca tggggcgatg 240
 ggggtgctagt tatgggtctct ggtctagtgc agaccaagga gtacagccac caaaggaaat 300
 ttatccagat gttcttctct gccctcaag agaaggggta ctttgtcttc aacgattact 360
 ttcacttcgt tgaccaagaa catgtgcagc ctgcgccagt gattgctcag gaagactacg 420
 agaagcattt ggcacccaac acag 444

<210> 37295
 <211> 263
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-036-Q1-K1-C5

<400> 37295
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 ggcgctgctg ctgctggcgg cgggggcccgg gacggcgtcg gcggcggtga gctgcggcga 180
 ggtgacgtcg tcggtggcgc cgtgcctcgg gtacgcgatg ggcagcgccg cgtcgccctc 240
 cgcggcgtgc tgcagcgggg tgc 263

<210> 37296
 <211> 309
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-036-Q1-K1-C6

<400> 37296
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 ttggagcctt gaaggctatc ctcaatgtca ttggtatgac taaaatgact gcaccaatca 180
 aggatcttct tctcgtctg accgccattc ttaagaacag gcatgagaag gtncaagaga 240
 actgcattga tcttgttggg aggattgctg atcgtggagc acaatttgtg cccagcaggg 300

gaatggatg

309

<210> 37297
<211> 374
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-C7

<400> 37297

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cgagtagccc caaggagtgg ttctccatgc tggccggcct caccgcgggg caccagcgcg 120
cctgggacgc cgggtgcggc accggccagg ccgccatcgg aatggcggag cactacgaga 180
gctgtgtggc gacggacgtg agcgagggcc agatccagca cgccatcgcg caccgaagg 240
tgcggtacct ccagaccccg gagcacctgt cggaggacga ggtggtgtcc ctggtcggcg 300
gcgagggtc ccttgacctg gtcgtggtgg ccacctncat ccaactggtc gacgtcccgc 360
tcttctacgc cgtg 374

<210> 37298
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-C8

<400> 37298

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atttgatgc aaattacgtg tggaggatgg agtaaaatac tgagcaaggg agagggaaga 120
ggagacggtc ttttcttttc ttgagccgag gagggggatc aggtggagtg agcgaagggg 180
aggttctgcc gccggcaatg gagatgaatc ttccggcgga gagcccaactc tgctcccggg 240
gccggccccg cctagtcgtg cg 262

<210> 37299
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-C9

<400> 37299

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gcggagcttg agctgttgta gatgcacaac atgacatact gcaccgaaat tgcccactac 120
ggggacaccc ggaaacgcaa ggagatcgtc gaacaggacc acacaactgg gcatagcagt 180
gaacaacaaa ctggccagga tctacaacct gtacggccac tgaaatagac attagaaagc 240
ggtgatacac gctggcagac aataatggag cgaaaaacct gcaacatgac ataccatgcc 300

<210> 37300

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D1

<400> 37300

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cgctagttct cccatttctt tccccacctc ggtcgctgcc tccccagag agcaggagcc 120
gcctcgctcc tgccggtccc gaccccgacc cccatcccggt ccgcgtccaa cgccatgaat 180
cccgagtacg actacctctt caagctgctc ctcacggggg actccggtgt tgggaagtct 240
tgctgctgct tcaggtttgc ggatgattca tatctggaga gctatatcag tactattg 298

<210> 37301

<211> 335

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-036-Q1-K1-D10

<400> 37301

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caccggtttt tgcatgggag ctgcatggag agaaaccatt ggaaggaaaa caaacttcaa 120
ccagattctt gaatatgtca aggaaataag gtattcattg gaatcttttg tttatatggc 180
aaaagtatgg tatatgacgc ttgacctgca taaccatgca caattgtctg tcacctatga 240
tgtacaggtc attgacttaa cagccttaat tacatggaat atgaagatat atccagccag 300

caaaagtttt atgcatgatt cttatatntt atttc 335

<210> 37302
<211> 323
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D3

<400> 37302

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ccctctccct tggtttctct tcccaccacc aacccccatc ccggttatct ccgccgccgc 120
ccgctttggg aaggcgcgac gaaggcaggc gagaggctcc agccggacga ggaggaaaga 180
ggagcagcag ggccggagga gagatgttcc tgtgggactg gttctacggg gtgctggcct 240
ccctcggcct gtggcagaag gaggcgaaga tcctcttctc cggcctcgac aacgccggca 300
agaccacgct gctccacatg ctc 323

<210> 37303
<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-D4

<400> 37303

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aggcctcaat aaaaattaaa gaagtcgagt gggattacct actacagcaa aatatgcatc 120
aattcagcat tgatgccctc gagggcctta taaagtatct cagtactaat ggtactacca 180
atgctgatcc tgcagttgat ttagtaagag cactgcagtc ccaatgccgg gacgatacca 240
gtactcaaca gtttgaactc tcttttcatg gaagtggaaa caaatattca tgtagcagtc 300
tggcagaact agatcagctc acttgcaaga acttgtgcac tgatataatt ctggacgntc 360
ctggttctga tagagagat 379

<210> 37304
<211> 359
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D5

<400> 37304

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aggttcaaac agacgctccg cacgagctgg agatggaggt ggaggtggcc aaatattcac 120

gggggcaggg tgctgacctg aaggcgctgg gggacaagaa gttgaaaggg cagctcagtg 180

taaaagagaa gctatatggc caatctgcaa aagctgctgc aaatgccgaa aagtggctta 240

tgccaatga tggaggtatt ttagagcctg gtcatttgga gaaaacatat agattttcac 300

aagaggatat attgacagag gtggatcttt tgagttcaag aaaaccattt gatatgac 359

<210> 37305

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D6

<400> 37305

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caagcacatg ttcaagatgc cattttggat agccgagagg atggactcat gagtgatagg 120

aaaaactatc ctttgagtat gcttgccatt catgctggtc ccagattgcg gcttcttctg 180

atcacattcc agcttctgga aatggaggta agaaatatct ctggaagtgc tgaacttgat 240

ggaatcaggt ggatgcaagt atcaactacc ttgatagata gtttaattca accagtatct 300

atgaaatgga ttgaagaaga acatgccttg gaaaatggac aaatcaacga ataacttatg 360

aagacga 367

<210> 37306

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-D7

<400> 37306

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tgttcctaca taccctactc caccgcagc agcggcgcgg cggcggcaaa ggcaaaggca 120
 aaggcaagat gttcggggcg gcgccgaaga agagcgacaa caccaagtac tatgagatcc 180
 tcgggggtgcc caagtccggc tcccaggacg acctcaagaa ggccctaccgc aaggccgcta 240
 tcaagaacca ccccgacaag ggcggtgacc ccgagaagtt caaggagctc gcacaagcct 300
 atgaggtttt gagtgatcca gagaaacgtt gagattatga tcagtatggt gaagatgccc 360
 ctt 363

<210> 37307
 <211> 413
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-036-Q1-K1-C1

<400> 37307
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 tcgacgcggc catcagctgg ctggacgcca accagctcgc cgaggcggac gagttcgagg 120
 acaagatgaa ggagctggag agcctctgca accccatcat cgccaagatg taccagggcg 180
 cgggtgaaga catgggcggc gctggcggca tggacgagga cgcggcgctt ggcagcggcg 240
 gccctggccc caagatcgag gaggtggact aagcggtttg ttgtcagtct tgagcgtgct 300
 gcagttgctg gctgggccag tcgctgccgc gagttatcgg cgtcggtcgg tcgggtgtgt 360
 ccgttaaact ttaattgtgg tgggctggta cttttggggg tgttattttt ttt 413

<210> 37308
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A11

<400> 37308
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 ccgccgctcc atcccgtaac gcgacacatc gagggagtgc atttcgatcc acatcggcca 120
 ggccggatc caggtcggaa acgcgtgctg ggagctgtac tgccttgagc atggcattca 180
 ggctgacggc cagatgcccg gtgacaagac cattggggga ggtgatgatg ctttcaacac 240

cttcttcagt gagactgggtg ctgggaagca cgtgccccgt gctgtttttg ttgaccttga 300
 acccactgtc atcgatgagg tgagaactgg caccct 336

<210> 37309
 <211> 331
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-036-Q1-K1-A12
 <400> 37309

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 gaaccctagc cgccgcccac ggatatcgcc ggagaccggc gccggtagcg atacgcaaaa 120
 ggagtgggtac gttctttgac cttgtttatt gctgcgcccc aggcgtgtgg cgcggggggga 180
 gcaggaagga gaggggaaga acagaagggg aaggcggggc gtgccgcgat gtcgggtgcgg 240
 atcaaggcgg ttgtagaccg gttcgtgaaa gaactgcagg aagcgcctga cgcgggacatc 300
 caagaccgcg tcatgaagga gcgcgagatg c 331

<210> 37310
 <211> 324
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-036-Q1-K1-A2
 <400> 37310

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 caacaccatc cattttcaac ctagacccaaa tcaacgcatt tgctgtggac aacctcgtat 180
 cggaagatgc tctgactttc gaagacctca gcatcatgcc tcagaagcta aaggggtacc 240
 cgggtggagta cctggtgtct tacaggaagg gcggggccgtc gttcggctcg accgtgagcg 300
 agaagatgag gagctcggag atgt 324

<210> 37311
 <211> 329
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-036-Q1-K1-A3

<400> 37311

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accctgggta tttgtcagtg ggggttttgat gatgaagcca atcatttggt gatgcataga 180
aatctgccag ctgtcagatg gggtgggtggg gttgaattgg aattgattgc cattgcaaca 240
ggaggacgaa ttgttccgag attccaagag ttgagtcctg aaaagcttgn gaagggctga 300
ttagtcagag agaaatcatt cggaacaac 329

<210> 37312
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A4

<400> 37312

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gagatttgat cttttggtgc ctgttaagct ttctgaatgt gaattactaa ccatagtgac 180
cttgtattag gttcaaaatg ctgggctgga aactattgga ctaagaccgg caaattctcc 240
aagtctgtca actaattcag gggtttatga gcaattcatg cagaagtacc attagccaca 300
gactcaaaat tcac 314

<210> 37313
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A6

<400> 37313

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gagaggataa ttaagagaga gaaggtgaag agagagacgg ttttgtgtga tcatgaaata 120

cttgccaaaa ctaaggacac agttatatttc tcttaccttg catgcggagc aagctcagaa 180
tctgcaacta cttcagttaa taacaggctcg tacagtggag cagcacaaaag atctgatgat 240
gtcacagtag atagtactat ttctgggaag aaaaccataa ggttttctct gaataacaga 300
ggtgctgata gaaacacagc tgacagctcg aggacattgc tatcattcaa acgcaagttg 360
agtgagaggg gaccacgagc tggtaagcaa 390

<210> 37314

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A7

<400> 37314

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ccctagctct cgttgtcagc aatggccacc accgctgct ccagcctcct caagtcctcc 120
ttcgcgggct cccggctccc ttcgggcacg cgcaccacca ccccgctcgtc cgtggccgtg 180
gccaccccg cgcgccggcg cgccccatc cgcgcgtcca ttctctcccc caaccgccc 240
tacgacctga cgtccttccg gttcagcccc atcaaggagt ccatcgtgct ccgcgagatg 300
accccgcgct acatgacgga catgatcacc cagcccgaca ccgacgtggt gatcgtgggg 360
cgccgggtc 369

<210> 37315

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A9

<400> 37315

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agatgatact tcatctttag cagaaactga tttggatggt ctgtccagaa ccaagcctaa 120
agaagcaaac gagcttattt ctaagcagga atcgcaggat aagttggaaa aggctcctga 180
tacctctgtg ccaactaatg ggaatagcta ccaagaaaag cttattggca gccagatat 240
acgaccaaag aaattggcct taaaattagc atttacttta ccaacatcat gctacgctac 300

aatggctatc cgggagcttc tgaagacttc cacctcag 338

<210> 37316

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B1

<400> 37316

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caggaagaag atcgaggatt ctttgcgtga gaaggagaag aggctgcagt tcgcgattgc 120

caacgacagc tccacttcgc tcagcttcat ggcagcgtg tatgcttcgc ggttcgctgg 180

gaatatgata cggatcctga ggagaaacgc cacgcgcaag gccaggctgc aggaaagagt 240

gcccgcgaga ctgctgcaga aaccggctga acccaacttt tccgcagaag agcagtagta 300

tttcgcttct ctgacttctc gttttgcaga tacagatatg ggaaaattgt tgcgtga 357

<210> 37317

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B10

<400> 37317

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ctcaattaaa gtcagcagag gatgatcttg gtttcaagct ccctatgcc acaaagctgt 120

tgtatcgctt ttgcaatgct caactgcctt ttagtgagga ccatgacaca aataaaagca 180

tttccactca tggattgatt gggggctatg cgttttatga tcattgggtg aatgtgcatt 240

tgtcaccgct tgagcaaata gttgaagaga cgaaggactt ctatcgggag ttccctgatg 300

tatttcatgg gcgcaaattc attgtagtgg caa 333

<210> 37318

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B11

<400> 37318

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aggatcacct cgcactgatg atggagctgc taggaatgat gcctcgaaag attgcgttgg 120
gtggtcggta ttcacgtgat ttcttcaatc ggtatgggga tttgcggcac atccgacgct 180
tgcggttctg gcctctcaac aagggtgctga tggagaagta cgagttcact gaaataaatg 240
ctaattgggat ggcagatddd cttgttccaa tacttgattd tgttctctgag aagcgcctta 300
cagctgctca attgcttcag catccatggc 330

<210> 37319

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B12

<400> 37319

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atcttcaaga aggccagtag cttggccact agtggcagcc cggacatctg cttcaggttc 120
tcggccttct tcacctaggt cacttgttga tggggaagg tacaacagtg ctgatgaaca 180
gggcccctgt tatgccttga gttatgatga ttcggaaagg gagegtatgt ttgaccatg 239

<210> 37320

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B2

<400> 37320

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ttagttcgat ttcaataggg gttcttctct tatttcgtct tttattatgt tagatgaagg 120
ggaaaaaatg ggaactcaaa gatatcgaag agtaaaaaaa aggatggaat aaaagagtga 180
ttggttgaaa agaaagagaa atagaataat gagaatcata tggatttaca caaacctcta 240
atgattagaa actaaaaacg agatctcgaa gtaattcgaa cgatttcgat tatcatttat 300
ttgtacttat tagttacttc taccgatag agct 334

<210> 37321
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-036-Q1-K1-B3

 <400> 37321

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 tcaccgcagc tggcgacacc gtctcgcggtt ggatcgcttc taccctcacc aagcacggct 120
 gcagattggt cttgttgggc gacgagggcg cgctggccgc gacggaggag gaggcgcggc 180
 gctgcgggggt agggggcgga tgcgtcgaat tggtcgggct ggacttcaag gcgtgcgggtg 240
 aggctgctgc cgacgcggcg gtggatcggg cctggcgctg cttcgccgga ctggatgcct 300
 tcgtcaactg ctactcctac gagggggagg tgcaagattg cctcagtata agtgaagacg 360
 agt 363

<210> 37322
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-036-Q1-K1-B4

 <400> 37322

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 gtcgtccgaa tagtacactc taacgccgcc atggggcgta tgcacagccg cgggaaggggt 120
 atctcgtcgt cggcgtgcc gtacaagagg acgcctccta cctgggtcaa gaccgccgcc 180
 tccgacgtgg aggagatgat cacaaaggca gcgaagaagg gacagatgcc gtcgcagatc 240
 ggcgtcctgc tccgtgacca gcacggatc ccccttgta agagtgtcac cggcagcaaa 300
 atcctccgca tcctcaaagc ccatgggctg gcacccg 337

<210> 37323
 <211> 321
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-036-Q1-K1-B5

<400> 37323

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ttctggacat ctttgtttgc atccttgccct tcatgccacac tggatggggg ttgctcctga 120

ttgcccgaagc tatcaggcct gtgattcaaa agatcgggct gtggggggtcg atcaaggctc 180

ttgcccgggg ctacgagatc ctaatggggc ttctcctgtt caagccatt gctttccttg 240

cctggttccc gtctgtgtcc gagttccaga ccaggatgct gttcaaccag gccttcagca 300

gaggtctgca gatcttccgt a 321

<210> 37324

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B6

<400> 37324

cccacgcgtc cgccacgcg tccgtccact cgtccgattg cccacgcagt gtatggagat 60

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acggttgatg gtcagatgtt tggcgacag cattaccagt atccaaccac gtattttcag 180

cctgctacac caattccttc taccactcaa agcaacctgc agtcttccaa caatcctgaa 240

aagccagcag ctaaagcaga tcttgccaag gcaaccgcta atgggtgttc aaatgggtact 300

ggtcacactc acagttacag tggaactgta ccaagccaac aaagttcagc actgacgcct 360

gatggaactt atagggcgcc cttgctaggt ggagttcctt ctgcttggtta cctagagacg 420

a 421

<210> 37325

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-B8

<400> 37325

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actgttcccc cctttgactg ggtctagtaa caagatgaag cagcctgttt ttacgcctaa 120

gcgtcctcga acttttctctg ctgctgagga tatccatgct gcaaagatgc gctatgctct 180
 gggaatgaac gaggacatgt actctgcgtt caaagagatt gctggtgaat accgtcgagg 240
 taccatggat gctttttgagt atctttcata tgctcgagcag ttcggactgt cgcaccttgg 300
 tcctgagatg gctaggctat tgcctgattc tcgaaaaccg aaggaacttg ctgatgcgca 360
 ctataccaat acaccgttga aaaaccttca agaaaatgga aattattaga aggggg 416

<210> 37326

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-A10

<400> 37326

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 acatgggcta aataaagtgt gcgtcgtctg gtctggtggt ggtagtgggg cgcggtgccc 120
 catgtgtgcc gctgcagctt gtgtctctgt gttgcttcat gttctctgtc tatctactct 180
 catgtatggc agtttgggta cgggtatatc aagcatgttc agtcttcttt ggttgaaaaa 240
 aacaaagaaa ttggacagaa aattagcatt tactctacca acatcatgct acgctacaat 300
 ggatatccga tagctcctga agacttac 328

<210> 37327

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G12

<400> 37327

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 gcgcgcgcca acaatcagac cttcacgtca taccgcatcc tccgctcgcc gacctccgc 120
 gcccggtcct tgagcaccgg cagctggccg gcggcgctgt gctgcgcgaa catcttctc 180
 aaaaaccatg gaggccacag gaggtagcgc aagaggccgc tcctgcggag gtgcacgtcg 240
 gggttgccgc ggtacacgta cttgtcgatg cagttgttgc agtcgttggc gaggatacgg 300
 acctggttca tccacgtgcg cacctgcacg ccgtgc 336

<210> 37328
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-035-Q1-K1-G2

 <400> 37328

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 cgctgaaact atactgtagc aagtagcctt tctgactgc agagacctag ccatccagat 120
 ctaaattggct gcctgttcat agctaaaatg catagcacca ttattcattt gcaaacactat 180
 cattcgattt ctacgagcta ttcattgtact gctcggatgc cagtcttctt gactctaatg 240
 ctatctccat cagtgtactc atcctgatca tcttatttca aactacacta tgcgaacaat 300
 gcagtctata gtacaaacag cgttctgcac agtcacatgc acgttttagct ggctataccc 360
 taacagtaag gatccatgca gaaaacttag tttctaatac tacagtaggt caaatttaca 420
 cac 423

<210> 37329
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-035-Q1-K1-G3

 <400> 37329

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 gcaggcctcc ttcgccggcg acatccgggg actccacatc ggccgcctct gctcctcccc 180
 ttcccagcc tccgcctcgt ccaaggcagg gttcacctc acggtggggg accacgagct 240
 cgccggcaca aaggtgacgc tcaagaagcc cctgctggtg ctcaggaaga agaagggttaa 300
 tgctggtgct caggaagaag agccaccgac ggccggcgag gtggagctgg aggtgatcgg 360
 catcatccgg cac 373

<210> 37330
 <211> 428
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G4

<400> 37330

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ataagccaca tgctgctgca gacagaataa aggcagccac gttatcagtg gctaagggat 180

tgagcagggc tcaagctgaa cgcgctgcga ctgctgctgc ccgcaatgtg aatgcctatg 240

ggcagaagga agagggacca agccgctggc aggagaggaa ggaagccaag agacagatgt 300

atctgatgag tacagagaag gctgcgaagc tgggcaactgt gaagccaaaa gcttcagaaa 360

cttcttctgt tggcgcatat acccaatgcc agaagtgttt ccagcatggg cactggacat 420

atgagtgc 428

<210> 37331

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G5

<400> 37331

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aaggaatacc actcaaaaag gttatggatg catgctcttc ttgctttgag caaagaacaa 120

tatttaccga gcaagttctg gcaaaagcac taaatcaact ggttgaacag atacctctat 180

ctttgctatt catgaggact gtcatgcaag caataagtgt ttttactgca ttggtggatt 240

ttgcgatgga gatcatgtca cgccttctga gcaagcagat ttggaaatat tccaagttat 300

tggtaggact tctgaagtgt gctatcttga 330

<210> 37332

<211> 245

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G6

<400> 37332

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acatttttaaa ttggaattgt atttaaatcat tgcctttttgt gatcactccg ataatcgggtt 120
tatggcaacc tattggaacc aaaaacaata aatcaactgg ttgaacagat aactattact 180
ttgctattca tgaggactgt catgcacgcc ataagggttg ttgctgcata gatagagttt 240
gtgat 245

<210> 37333
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G7

<400> 37333

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gaaaaaaaaa aaaaaaaaaa aaaataaata aaaaaaaaaa aaaaataaaa aaaaaaaaaa 120
aaaaaataaa aaaaaagaaa taaaaaaaaa aaggggggtga acttttagaa gataaaagtt 180
tatgatcggg tatttatgag gactaacatt taattaaggg gagctaaaat tgaattgatg 240
ggacttgttt ataaacatga tgtcattgga aaaacagcgg gctgaccaag ataaatccca 300
tggataaat accatttttg aaaagtg 327

<210> 37334
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G9

<400> 37334

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aggcaaaggc atggtgcgcc tctaaaggga acatcccgta ctttgagacg tctgctaagg 180
atggaacgaa cgtggaagat gccttccagt gtattgtaaa gaatgctctg aagaatgaac 240
cggaggaaga attgtatgtg ccagataccg tggatgtggt aggtggcaac cgggctcaga 300
gatcatctgg ctgctgttaa gacatgaggc atccacg 337

<210> 37335
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-035-Q1-K1-H1

 <400> 37335

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 cagccttctg atcgtcaccc atggccactg ccgaggtcca gaccccgacc gtcgtggcga 180
 ccgaggaagc gccggtggtg gagaccccggt ctctcgccgc cgtcgtgccc gaggaggctg 240
 ccccgccgn cgaggccaag gtggaggagc cagctgcccc ggcggagacc gagccagctg 300
 ccgncgctga gcccgaggcg gccccgtgg cggcggtatga agagacgcca aaggaggaag 360
 agacggc 367

<210> 37336
 <211> 338
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-035-Q1-K1-H10

 <400> 37336

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 acacgaagcg ctgaatcatg tacatctcta gatgggagca caaaagttat gggttggcaa 180
 ctgccaggct catctctaga gggcagtgc aaagtctgag gttggaaacc accagtctta 240
 tcacttgaac ggattgctga tggttcaaga tcacaagcat cgtgtacttc tacgcaaagg 300
 ggcacataat cttcaggttg gcagcgatca agttcata 338

<210> 37337
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-H11

<400> 37337

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gaaaactgtg gtatctggtc tcacaagtct ccagaaagat gcttatactc cttcgcacac 180
tttgcttggg attcaacatg ataagaacaa ctcaggtcaa gtttccttat ctgctattgg 240
gaaagctttt gccagagcag acctgaatga agtgcataaa atattgctgc atgatggata 300
taatgaggac gacnaggcta atgctgagct atc 333

<210> 37338

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-H12

<400> 37338

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actaggtgcc gtagcaatac aagctacaca cgctgttaca attgcgacgg cgccataaac 120
tactgaaaga gctaatacgg cgcatcaca tacagcatca catcaattct cagtatccta 180
ctgtcattct gatacatata cagcagctca aatgatata agctgcaaac actgctctta 240
tactgagca agattgataa tgactgata 269

<210> 37339

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-H2

<400> 37339

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gcgagtgcga catggccctt gcagcttctc gccagtcgtg gcctctccct cgctgcggcc 120
tgctggtctt ggcccttgca ctggcgacga ccgccgcggt gggcagcgcg cagctgtcgt 180
ccgagagcta ctacgacgcg tgctgccccg cctgccttct caccatcagg accgacgtct 240

cgacggccgt gctgctggag ccccgcatgg gggcctgcct tctgcgactt cacttccacg 300
 actgtttcgt gcacggttgc gacgcgtcgg tgctgctaga cgacacggcg agcttcaccg 360
 gcgagaaggg ggcggcgccg aacgcggcgt cgctcccggg cttcgacgtg atcgacgaca 420
 tcaagatgct gctggagct 439

<210> 37340
 <211> 255
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-035-Q1-K1-H3
 <400> 37340

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 ctgctgggtct tggccctagc acatggccac taccgacgtg caggacagca cgcagctgtc 180
 gaccgagagc tactacgacg gcggctagcc ccgctgcct tctcagcatc aggaccggag 240
 gctggacggg cgggc 255

<210> 37341
 <211> 51
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-035-Q1-K1-H7
 <400> 37341

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<210> 37342
 <211> 314
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-035-Q1-K1-H8
 <400> 37342

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 taaccacacc acaactacag ggaggaagag cagaacagag gcagagagag agagagccat 120

ggcggcggtc gccgtgagcg ggaggtctgcg gacgctgggg cgcggcgcgt cgggcgcgt 180
 ggtgtcgtcg gctggggacg ccgcgtcggg ggagctggtc gcggtcaagt cggccggcgc 240
 gagcggcgcg gcggcgctga agcgggagca cgcggtgctg gccgggctgc gctcgcgcga 300
 tgtcgtgcgc tgcg 314

<210> 37343
 <211> 330
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-035-Q1-K1-H9
 <400> 37343

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 gccgagattg gagaagctga gagtacaatc gcagaagttg aagcagttgt caagccagca 180
 gaagattaaa ctaaaaaac tcttggtttg ctgaactgtt agcgcacatc ctattttcgc 240
 atattgagcc cttgtgagcc tattacgaga tgtttgaggc gtgaaatcct gtaccattat 300
 catcacttct atcttgaaat ttgagtttct 330

<210> 37344
 <211> 342
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-036-Q1-K1-A1
 <400> 37344

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 acaggtggtg ggatggccac cagtctgcaa ctaccgcaag aacacgatga ctaccaccca 120
 gctggagggc agcaaggagg atggtgatgc caagcagggt caggggttcc tgtacgtcaa 180
 ggtcagcatg gatggcgcg cgtacctcag gaagatcgac ctcaagactt acaagaacta 240
 caaggacctg tcgaccgcgc ttgagaagat gttcagtggc ttcattactg gcaaggacgg 300
 ctcatctgag taccgcaagg atggtgaata tgttctgact ta 342

<210> 37345

<211> 357
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-035-Q1-K1-G11

 <400> 37345

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 ggacagcatg acggtcgggg agggctctgct catgatggac gatgaagaga gggtagcgcc 120
 atgctgagat cccgaccagt ggctatcgca agctgcgcgt ctgactgcga cgtcgcctag 180
 tcaagaacta cgaccagatc agggacaacc gctgcaaaaa ctgtccattt gtatagatgg 240
 acagagagca cgacatcacc gtgaactaga ccaccccgaa ctttactgga attatctgtc 300
 tgatggaccc cactctgagc taggcagccc gttgggtgaa aattggcagg ttcatta 357

<210> 37346
 <211> 334
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-035-Q1-K1-E12

 <400> 37346

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 ggacagcctg gcgttccagt cgcgtctgct ggccaagtcc ggcatcggcg acgagtcgta 120
 catgccgcgc tgcgtgttcg agcccaacgc cagctgcgcc accatgaagg agggccgcgc 180
 cgaggcgtcc acggccatgt tcgcggcgct ggacgagctg ttcgacaagt gccgcgtccg 240
 gccaaggac gtgggcgtgc tgggtgtcaa ctgcagcctc ttcaaccga cgcccttct 300
 gtccgccatg atcgtcaacc actacaagat gcgc 334

<210> 37347
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-035-Q1-K1-E2

 <400> 37347

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gtgaacgctc cggcggggaa gaagcccaag gccgagaagc gcctaccggc gggcaagtcc 120
aaggagggcg gctagggcta gaaggggaaa acgaatgcga agaagtccgt ggagacctac 180
aagatctaca tcttcaaggt gctgaatcag gtgcaccccg acatcggcat ctctgccaag 240
ggcatgtcca tcatgaactg cttcatcaac gacatcttcg agaagc 286

<210> 37348

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E3

<400> 37348

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tggagggggc gtcaggcgta cgacgacttc gacgggacac gccagatctc gtggttgtcg 120
agttcgtttg actccaaccg tggccatgcg tcgggacact ggctacgcgg gtcccaacgta 180
ggctgccccat tttgggaccc ttgtcttcag acacgtgcat ttttacagta tctcgtttta 240
gaactgaatt ctacattaac tatcacagtg caagtgtata tcaccctctg ggctcctaaac 300
tatatttaga tcgttttggg atactcccta gtggtaatag actc 344

<210> 37349

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-E4

<400> 37349

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agcgccatcg acttcatctc ggattgaagc aatgtcgtcg gacgatgagg tcagggagga 120
gaaggagctc gacctctcct ccaacgacgt tgtcaccaag tacaaggctg ccgccgaaat 180
cctcaacaac gctctgaaga ttgttgtgtc tcagtgaag ccaaaagtca agattgttga 240
cctttgagag aagggcgact ctttcataag agagcaaact gggaatgttt acaagaacgc 300
aaagaggagg attgaaaggg gtattgcttt cccaacctgt gtatncgtca atgacacagt 360
ttgccacttc tcaccgcttg caaccgatga tgccgttctg gaagaaaatg acatgggttaa 420

aattgatatg ggct

434

<210> 37350

<211> 124

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E5

<400> 37350

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aatggagaca ttacagtagt agaggaagca gagaacataa ttcaggcaat caagtcagtc 120

agag 124

<210> 37351

<211> 118

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E6

<400> 37351

cccacgcgtc cgcagaagat caattgcttt ccaaatccac gctgacacca actcgacgag 60

ctgcgcgcca agcaccaaag ctccgatggg ccgcactaaa cagactgctc gcaagtcg 118

<210> 37352

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E7

<400> 37352

ggcacacgca ctacacgcac ggcacgcata tacatataga gagaggttag ctatagcttg 60

cacatctatt taactaacta actaactggc tagctagctc gatccgcaga gcaaagcgaa 120

agcagcaaga agcaaagcaa tggagaaccc tgcgagtgtg ctagttctac cagcgcagtt 180

caccaaactc accttcggaa acctgtacat ccgccgggcc gggccgggca gcaggagat 240

aaccgaggag ggcaggtgcg acctggacag gagatactg agtaacttcc ccgtctacga 300

cggccgcggc ccgcacgcca gccttggtggc ccgcgtgcag gggatcacca gcgaaatcgg 360

gaacgcgcac caactgttcg tcgttggtgtt cgacaccgac aggtatac

408

<210> 37353

<211> 371

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-E8

<400> 37353

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tgaaaatagc tcattttgta gttacatttg catcaagctt tgatgattgc tgtacaagga 120

tgatatggcc tncgcgccaa agctgtctgg tattcagaag cagggttttg cgctgtacag 180

gggattcctt cggacagcac gccttaaggc ccctgaagaa cgccgcagga tcgagtctgt 240

tatcttggca gagttccgtg acaacgcaag gagtggtgac cgtaggaact ttgtacacat 300

agagtacttg ttgaggagag ggatgaagca gcttgagcag ctcaagaatc ctgatattac 360

tggactcgct a 371

<210> 37354

<211> 305

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E9

<400> 37354

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tgtggcgaga gagacatggg ccggggtggg aggacgatgc atctagctgt tgacgatgac 120

gaaaaatttg tgatgatcgt ggatatcaag tgtaaagatc tagagaggat gatgatgtaa 180

ctttttctct atttttcttt cttttttggt atacgtccac acacatactt tgctaatacc 240

atgctctgca gaagtgcctg tactagctca attcctataa actaaactat tataccctgt 300

gttct 305

<210> 37355

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-F1

<400> 37355

agaaaactga tgtatttggc tatggaattt cactttttaga gcttattaca ggacagcggg 60

ccttcgatct agcttgcctt gctaattgat atgatgtcat gcttcttgat tgggtcaagg 120

gattgctcaa ggagaagaaa ctggagagtc tggtcgacca agatctagaa cacaactacg 180

tcgacgttga ggtggaatct ctggtacagg tcgcactcct ctgcactcag agcaacccca 240

tggaaacgcc taagatgtca gaggttgtga ggatgctcga aagcgatggt ctgcgccgaga 300

gatgggaaga gtggcagaaa gcggaagtag ta 332

<210> 37356

<211> 223

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-F10

<400> 37356

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gctgattgct atataacatg cacgaacatt atcatagcaa gccatatgca acggggccaaa 120

tagttcacgt ggaagagtat gaacatgagt cagagtggct caaatcgata actcgccgac 180

ataaacgata aaggctaatt ttcagtacat gcataacctg tat 223

<210> 37357

<211> 338

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-F11

<400> 37357

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ggatgcggtg ctgatgctcc actacgccta tggatgcggtc aagaagtcca tccacgcgta 120

cgtcgcgcgt gcgggggcca ccgtcgtcga ggtgccctc ccattccccg tcgcgtccgc 180

cgacgcaatc attgccgagt tccgtgctgc gctcgcggtc gccaaaggaag gagggcgtag 240

ggtcaggctc gcagtcacgc accacattac ctncatgccc agtgtcgtca tcccagtcaa 300
 ggagctcgtc gccatctgtc gagaagaggg cgttgaca 338

<210> 37358
 <211> 340
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-035-Q1-K1-F12

<400> 37358

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 aagctctttc tctactgcaa taatggccgc tcgctcctgc tgctcccagc cgcagctggt 120
 cgcggcggcg gcggtcctgg cagcggcgct gctgctgctg gcggcagtg gggggacggc 180
 gtcggcggcg gtgagctgcg gcgaggtgac gtcgtcggcg gcgccgtgcc tcgggtacgc 240
 gatgggcagc gcggcgctgc cctccgcggc gtgctgcagc ggggtgcgct cgctcaacag 300
 ccgcgcgtcg tcggcggcgg accggcaagc cacctgcaac 340

<210> 37359
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-035-Q1-K1-F4

<400> 37359

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 tagctcaaga tcgagctata gagagaaaag ctaagatcga aacatatacc aatgggcaac 120
 agccttaggt gctgcctggc ctgcgtcctc ccctgcggcg cgctggacct gatcaggatc 180
 gtccacctca acggccgcac cgaggagtac ggccggcccg tggccgcccg cgagatcctg 240
 gccgtcaacc cgaaccacgt nctcagcaag ccgtgctccc agggcgctgc cgtgcccagg 300
 atcctcatcg tgtgcgcgga ctccgagcta gagcgcggcg agatatactt nctcatcccg 360
 gnctcgtcgg tgccgcggga gaa 383

<210> 37360
 <211> 383
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-035-Q1-K1-F5

<400> 37360

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actctgccag gtggccggcc agccctgtct ccatctccca cagccgccgc cgcctcagc 120
tcctcagtea cctcccatgg cctcgtctac ctgctgcagc gaagccgacc accgtttcct 180
gcagcctcga tagctccctc gatcgctncc ccccatgccg tccttctca cctcaccttc 240
gtcggccgtt cttggacgcc gtgctcggcg cccgagctcc ctacgccggt caccatgtct 300
tccatggcag gagctccgat cggaccctgc tgaccttggc actcggcggtg gctccaagca 360
gggccttctt ccccaggacc ggg 383
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<210> 37361
 <211> 375
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-035-Q1-K1-F6

<400> 37361

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aaccgcacaa gcgcgcgagg caggagagag agagaggcgg tgagcaaac aatggagggg 120
aaagaggagg acgtgcgcct gggcgccaac aagttctcgg agcgccagcc catctggacg 180
gcggtgcagg gcgccgttga cgacaaggac tacaaggagc ccccgccggc gccgctgttc 240
gagccccggg agctcaagtc ctggtccttc taccgcgcgg gcctcgccga gttcgtcgnc 300
accttctgt tcctctacat caccatcctg accgtcatgg gcgtctccaa gtccacctcc 360
aagtgcgcca ccgtc 375
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<210> 37362
 <211> 413
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-F8

<400> 37362

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cggacgcgtg ggaggagatc ttcattggac tgaccctggg tctgatcgcg ggaggcatgt 120
ggaagatgca cactggaac gagcagagga agactaggtc cttctatgac atgcttgaca 180
agggccagat cagcgttgct gtcgaggagg taagagttct tcccaggat tttcaaagaa 240
ctctctcgag agcatgacaa agtgattgct ggctgtggaa atttgtcctg gaaataagcc 300
caaccatttg ggaccaccaa attttgccga attttccttt cttttggatg aatatttgag 360
cccgccatg taaataccaa acatttggcc tttacttcat ctcttttttc ctt 413

<210> 37363

<211> 93

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-F9

<400> 37363

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agggactaat tgaataaaaa acaagcataa act 93

<210> 37364

<211> 339

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-E10

<400> 37364

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tggcggacca gctcaccgac gagcagatcg cggagttcaa ggaggccttc agcctcttcg 120
ataaggatgg cgacggctgc atcactacca aggagcttgg aacggtgatg cgctcccttg 180
gccagaacct taccgaggca gagcttgacg gacatgatca acgaggtcga tgcggatggc 240
aatgggacca tcgacttccc ggagttcctg aacctgatgg cgaggaagat gaaggacacg 300

gactcagagg aggagctcaa ggaggccttc cgcgtcttc

339

<210> 37365

<211> 360

<212> DNA

<213> Zea mays

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<400> 37365

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ggaactgggt ctgtttattg agaggaaact agacaaaaag gatttcggtc cattgatgtt 120
ctactcccaa cctgatggtc ctatagtgg aagtggcacc ttcaaattcca ctggtctagt 180
tccaggcgaa cctgaagcat tctatgtggg tcctccgtct agtgaaaaac tgccaaagaa 240
tgcttcacct ggggctgggt tgggtgggtc cataacctat ggtactgtaa gcacatttaa 300
caagaaagat gaacaaaacc accgtgcttc aatatcttat aagatctcat ataccatttt 360

<210> 37366

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-G10

<400> 37366

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tctgttgggt aacaaagttg atgtatatgg tgggaacagc cttgtggtgt cggagaaaaa 120
ggccaaggca tgggtgcgct ataaaggga catcccgtac tttgagacgt ctgttaaaga 180
tggaacgaac gtggaagatg ccttcagtg tattgtcaag aatgctctga agaataaacc 240
ggacgaagaa ttgtatgtgc catataccgt ggatgtggta tgtggcaacc acgctcagag 300
atcatctggc tgctgttaag acatgaggca tgcact 336

<210> 37367

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C4

<400> 37367

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ggcgtgcgtc cgggttcacca acaggtactg gatgcccacc gacgacgaca caaactgacg 120

atcaccgccg cagaggggaac aaattactga tagatcagcg tagcacgttc ctgagctagc 180

cccgccccct ttatgtttctc caattcagta atgcaatgcg tttttat 227

<210> 37368

<211> 77

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C5

<400> 37368

cggacgcgtg ggtttttttg ggggttcattt taatgaaaaa aaaagaaaaa aaatgaaaaa 60

ggaaataggg catgctg 77

<210> 37369

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C6

<400> 37369

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ctgggccgtc accctcgctg ggatcctcgg cggcggcgcc ctctctgtct acaacaccag 120

cgcctctcc ggctaaggat atccaatgca tgcgcttctt gcgattcgtc atgtaaaatc 180

agggtgtctg tctataatct agcctccatg gatgctcaac ctctgtcatg taacaataat 240

cagtgtact cttcattaca taattttgat gctatatata tataccccat ccttcctt 298

<210> 37370

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C7

<400> 37370

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tgaatccagc catggccggg ctgagaattt ccgacagcag gaaaggggtgc agcatgtaaa 120
gggggggagca gatgagatca tgtttgggat gctcccagat atgtatagtt atgtatcagc 180
cagttgtttg taaattacca attaataa gaagttatta gaaaaaatg gagttaactt 240
gtacgtttcg tgtgctctgt catctgaagc aattaaagtg gttagc 286

<210> 37371
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C8

<400> 37371

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agagtctaaa gtctaaaggg tgttgctcca ggtcagatgt ctatcactat tagtctatta 120
tcacctgcca attcatgcac atcatttcca tcattgtctg tgccaatcat acatgaccaa 180
gagttagcaa acagagaaaa taaataatca gacattcaga tgggtatgtg ctgtgtgtag 240
caacaaatta taggatgacg aacatagagt atttgcagtc ttgttggtga gtattgttca 300
tttaccggac catctaaagc ctttgtttct acactgctct ata 343

<210> 37372
<211> 332
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-C9

<400> 37372

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ttccctgagc tatattaata cattgggtatt aggccttcca agggagtcac attataagga 120
gaacctggaa caggaaaacc tcttcttgcc aagaacaaat tttaggggtg agcatgatac 180
agtcactgag aaggacctag aacatctnct gcaactttta gataataagg aaagcgggga 240
tacagcttgg cagaatttga tggagcgtag aacctncaac atgacataca atgcctggcg 300
gcgtgagcct gangagggac ctataatgta ct 332

<210> 37373
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D1

<400> 37373

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accgcggcct tctctgtgaa ggggaaggcc tccaccgggtg cgctccggct tcgctctacg 120
ttgaccttcg gcgaggctctg cccggcgcg ggggcgttcc gcggcctcgt cgtcagggcc 180
gctaccgtcg tcgcccccaa gtatacaaca cttaaagcct tggctgatag agtgcttgta 240
aagattaact cttccgagga gaagacaact ggtggaatct tgctccctac gactgctcag 300
tccagacctc aaggtggcga ggtagttgct gttggagaag gaaggataat tggggataag 360
aaagttgatg tcagcattca ggttggagc 389

<210> 37374
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D10

<400> 37374

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ctgctcccggt cgtcaggggtg gcggcgccgc gcggagtcgc ctgcccgctc gctggcgccg 120
cgtgcagggc cagcgggcaa ggggaaggag gtgtcagcg gtgtcgtgtt ccaacccttc 180
gaggacatca agggggagct cgcctcgtg cccagctact cagacaagtc gtcgcgcgcg 240
cacaagttcg tggatgactg cgaggccgcc ctcaacgagc agatcaacgt ggagtacaac 300
gcctcgtatg cataccac 318

<210> 37375
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D11

<400> 37375

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gactccgcaa ccgccgccat ggcggtcgag aagatcaagg tctccaaccc aatcgtcgag 120
atggacggtg atgagatgac cagggtatctc tggcagtcct tcaaggacaa gcttatcctc 180
ccatttctgg acctggacat caagtactat gatttgggga tactgcaccg tgaagcaact 240
gatgacaagg tcacagtggg ggctgcagag gctactctca agtacaacgt ggctattaag 300
tgtgcgacca ttactccaga tgaaactcgg gtt 333

<210> 37376

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D12

<400> 37376

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ccaccaccag cagccctcgc ctgccacccc tcttggtgct cctggcgggc gcgtcaccgc 120
tgctgagcgc agctcaaaaag gccgccccga aggtccggc ggccggcgaag gcggcgccag 180
ggccggcggc gtcgtcgtcg tccggcgcgg gcgcggcgga cgccggccct cccacagacg 240
tgaacaaggc gctcaaggac gaccagttca gcgagttcaa gcagctgctg cagcagcgc 300
gcgtggacac gcagatcaac gcgcagctga cggaca 336

<210> 37377

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D2

<400> 37377

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gagaggaata tggctactga ggaaatactg catactgaca tggctgctga ggatgcacct 120
acaaccaatt tgatcaccga gaagtcacat atgaaagatg cttgacagga gccagttcaa 180
actaacgaac catctgagca ggactgata actgaagaga ttgataagcc acagcatagt 240

gaaaagattg ctacggacac gagatggact gaagaatcta ctgaggagat gcttgagctt 300
gaaagtaatg cactgaatt aaacaaggat caatgagaac ttgaagggtt ttcattctg 358

<210> 37378
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-D3

<400> 37378

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tcgcgctcag tctcaaaggc ctcacctacg cttactgcga ggagaacctt gacgacaaga 120
gcgagcttct cctcagcttc aaccccgctg tcaagaaggt gcccgctgctc atccaccacg 180
gcaagcccgct ctgcgagctc cagatcatcg tgcagtaagt cgacgaggct attcccggcg 240
acgcacctaa tttccttcca tccgaccact acgaccgcgc cattgctcgc ttctgggcct 300
gctacgtcga cgacaagttc tacagcgcgt ggatacccggt gttcaggggc atgacggcng 360
aagagatggc ggaggctgcc aggcaggccg tcgcggcgct ggagacactg gagcaggcgt 420
tcagggagtg c 431

<210> 37379
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 37379

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acgctgttgg acctttgttg gacccttggc attccaactc caaaagcaaa cattagaaaag 180
gaagatattg tgtcaaagct gttggacttt attgctgaac ctcactctgc agctgattct 240
gggctctctg atgaccaggg ttcaaattct aaaaaacgca agagaggagg tgaaagtgca 300
cgtaagactt ctgatagcac acctagtang tcaagaaaga aattatcaat gacagcactt 360

ctagtaaaag gcagaaaaaa gcgctcgaat atgataactga tgaggatgaa tc 412

<210> 37380
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D5

<400> 37380

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tgctgagcgc agctcacaac gacgccccta aggetacggc tgcggggaaa gctgctccag 180
ggacggctgc accctcacat tccgtcgc at gcgtgccga cgctgaccct ctcacaaact 240
tgaacaaagc gctcaatgac gaccagatca gcgagttcaa acatgctgct gcacgacacg 300
cgctgggaca cgcagctcaa cact 324

<210> 37381
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D7

<400> 37381

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tggcagcgaa tacgcaccgg ggctggagga caccctcatc ctgaccatga agggcatagc 180
agccggcctc cagaacaccg gttaaaccac gaagagggga tcttttttct cctcctgac 240
attggctcta ggttcttcgt attttcgcgg at 272

<210> 37382
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-D8

<400> 37382

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aaagagcttg ttccgagatc gattgcagca acagaggaat tgaagcgatt tccaacactt 180
caatcggata tagcagctgc tgcaaacgaa agcctggaaa gattccgga ggatggacgg 240
aagactgttc ttctgtctaat agagatggaa gccagctacc taacagtaga atttttccgc 300
aagcttccta ctgaaccaga gaaagcggct gataagaaca ctccagttag tgatagatat 360
caggacaatc atctcagaag aataggatcg aatgtgtcat cttatattaa catgggtctgt 420
gagactc 427

<210> 37383
<211> 330
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-035-Q1-K1-D9
<400> 37383

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gcggcgctcg atgttgagta ccgctgcttc gtcggcggcc tcgcctgggc cacggacgac 120
cactccctcc acaacgcctt cagcacctac ggcgaggctc tcgagtcctaa gatcatcctc 180
gatcgggaga cgcagaggtc ccgcggcttc ggcttcgtca ccttctccac ggaggaggcg 240
atgcggaacg ccatcgaggg catgaacggc aaggagctgg acggccgcaa catcacgctc 300
aacgaggccc agtcccgcgg cggccgtgga 330

<210> 37384
<211> 287
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-E1
<400> 37384

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acctcctctt ctttgccttc gccgacgcat ggggctgcag gtgcggcgga tctgcctta 180
 gtccaggcgg cgggtggcggg ggcggtggag gatctgggtg tgggtgggtgt ggtggtggaa 240
 gcggtngggg tgggagtggg gggggtggat cgggtgggtg gagcggg 287

<210> 37385
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C3

<400> 37385

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 tagtatggta ctgtacactg taccggctct gtatgagaaa catgaggata aggttgatgc 180
 ttttggagag aaggccatgg tcaacctgaa aagggtactac gacatatacg acgagaaatg 240
 cctattaaag attacgtatg gcccatataa agacaagaag caccattaga agcttagaat 300
 cagataaggg tacctggaga ttgatcatct gtaatgacca ttattcgt 348

<210> 37386
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A9

<400> 37386

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 gccaatgtcc agaggcttaa gacatacaag gccaaagtgg ttatcttccc aaggcgtgcg 180
 cgcaaggtga aggctggtga ctctactcca gaggagcttg ccaccgctac ccagggtccag 240
 ggtgactaca tgccatttac tcgtgggtgag aaacgttcag ttgaggttgt gaaggtcaca 300
 gatgagatga agtcatttgc tgcctatggc aagct 335

<210> 37387
 <211> 243
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B1

<400> 37387

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cagaatgaat gaagtgtgaa ctctttcact atcaggacgg acgcaaactg caaataactaa 120

ctgctcatgt gatcaatcat aagagtaaga gatcgcgttt gaaacattag caattagcgt 180

aaggaaagac cttgctactg aacgaatgac atcaagtata aatggttcga cacatatatt 240

tca 243

<210> 37388

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B10

<400> 37388

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aaccaatctc tctctccctt gcaatgaccc tctcaagcgc ctagggctgc taccctagaa 120

ccaagcctat agcagagggg tataacctcg ccggagaaga caactatccc catggaccga 180

aggtccatga cacctggtat cagcttcagg ttatcctcac caacaacagc cggccattcc 240

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<210> 37389

<211> 334

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-B12

<400> 37389

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aaggctactg ccacttcaga ggtcggcctg ngaggctgca tcgcatccac atggngtacc 180

agcccatgca cggcaacggc gggacagccg gtgccgggac atcaggctcc ggcggcggcg 240

gcggcgaggaga ccacttgcg caccaccacc agcagcgctt gcacagcccc cgcattggccc 300
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<210> 37390
<211> 350
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-B2

<400> 37390

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gcctcaccta cctaccaatg gttatcaagg aggttcttcg gctgcaccc ccaaaccctc 120
tggttggtccc gcgtgagtcg agagaggatt gccaaagtcatt gggctaccac attcccaaag 180
gcaccaaggt gctcgtgaac gcatttgcga tctccaggga ttcaaggtag tggaacaacc 240
ctgaagattt tagcccagag aggtttcaga ataacaattg cgactacaaa gggaccgatt 300
ntgagttcac ccncttcggt gctggtcgtc gacgctgccc tgcaatcatg 350

<210> 37391
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B3

<400> 37391

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aagagtgatc tcgaggagca gcgagcggcg agcactgaag atgccaagga gtttgccgag 180
aaggagaacc tcttcttctt ggagacctct gcgctccagg caacaaacgt agagagtgc 240
tttcaaactg tcttgacaga gatattcaag atccacagca agaagaacat ggtgtcggag 300
ccgaagagca atggagctgc ccaagcaatg ccgggggacaa aggtccttgt cccaagtccg 360
gcgcaggaaa tccccaaagag caagtgcgtc agttccatgt gatgcttcta cgtttgggta 420
ctggtgg 427

<210> 37392
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B4

<400> 37392

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ctccgaccac tgttcttgtc attaacctgg tcggaatggt ggcaggaatt tcgtatgcc 240
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tgatcctcca tctttacccc ttcctcaagg gtctcatggg caggcagaac cggacgccaa 360
caatcgcat cgtttggtec atcctccttg cgtctatctt cttcttgctg tgggtg 416
  
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<210> 37393
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B5

<400> 37393

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gaaagaggag tggcatatct tgtgtgacac acttgcgctc aggcttctga atgtcgggtga 180
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atgggtccgc accttgaaat ctgaagatgg tgggaagact tatgttgatc ttctccagga 300
tttgatggag aaaaccatta cgcttgccct tgctacgggc cagaagagat ttagcgcgtc 360
actgtctagg cttattgaga actacgtgta attgctggct agtcaaggct ttcttaaaac 420
tgc 423
  
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 <211> 298
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-B6

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gaaaagccgc aaagcagcaa gtacatcctg cgaattcggc gaagcaactt aaggaaacag 180
tcagcgatat cagacacgac gtncagtccc agttcaagca aacacgttag accaagatgc 240
aagtcaacca gatcaagaag aggcttgaga agcttcacat cggcgggctg aacaacgc 298

<210> 37395

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B7

<400> 37395

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ctacttgttc atccttcaac atcgcacaa atagtgaaca gaatctgctg ggccttctgt 180
gtttatttgg aagcagtttc agagctgccc cagttgcgcc tgatgcaaaa taccagatt 240
gttgagccgt tcacagctca ttatgtgttt gcaactgggtg ttgcaagggt tcttaactgt 300
gcacattggg tccttcatgt tttggatacc ccaggccgct tggttgactgc tctgggctat 360
tggtt 365

<210> 37396

<211> 419

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-B8

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cttttagtac actatcttact atcactttgt tgatttgcta ggtgataaca aagttctgct 120
ctgaaagaat tgccaagtat gcttttgagt atgcatacct taacaatcga aagaaagtga 180
cagcagtgca taaagccaac atcatgaagc ttgctgatgg tttgttcttg gagtcttgcc 240
gtgaggttgc aaagaagtac cctggaattc aatataatga aatcattgtg gacaactgtt 300
gcatgcagct tggtgcaaag cctgaacaat ttgatgttat ggtcacccca aatctttatg 360
gcaatctggt ggctaagtga nctgcaagta ttgctggagg cactgggtgtc atgcctgga 419

<210> 37397
<211> 264
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B9

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attggatggc accggatgtt gttgatccgc agcagacata tgtacctgca gatgatatat 180
tgagtcttgg atgcactgtc ctggagatgt tgacacgcca gatacgctat cctgaccttg 240
aatgggcaca agcttatata cagg 264

<210> 37398
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-C1

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tggtgcggc cgtcgcggcg ctgctgggcg cgggggtggc ggcggcgacc aagttcgacg 180
acgtggtgca gccagctgg gccaacgacc acgtggtgta cgacggcgac ctctcaagc 240
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aggccagcgc cgacctcaag ctctgtccgg gggactccgn cggcgtcgtc acggctttct 360

atctgtcgtc gggccgggac aagcacaacg agttcgactt cgagttcctg g 411

<210> 37399
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C10

<400> 37399

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gcgatcggca acgccggggtc agccctcggg atcctagcgg ccgacggcgt ggtcctcgtc 180
ggcgagaaga aggtgacctc caagctcctt cagacctcgc gctccgccga gaagatgtac 240
aagatcgact cccacctggc gtgcgccgtg gccgggatca tgtgcgacgc caacatcctc 300
atcaacagcc gccggctgca cgcccaacgc tacgcgc 337

<210> 37400
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C11

<400> 37400

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tgatccgctg gtgtgcaaga tgttgctgag atccgagatt cattctctgc cattttttta 300
tgcttatgtt agacttttcc aatggacaaa attct 335

<210> 37401
<211> 340
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-035-Q1-K1-C12

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gaccgcgtgg cctcaccctc acggcggcgc cgccgncccc gccgcgggtg cgggcaggcc 180
gggcggcgcc gagcgctggt acagggatct cgcactcagg aggatggaga gcgtcagatc 240
ctccttcggg gccagaagag atttggcgac ggcttcgcgc agcgcgcggg tgtaccacgt 300
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<210> 37402

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A8

<400> 37402

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gtgctgccat caacagaacc cattggaatt attgccaga atttcctggt tggataccat 180
gttgttttcg acagagaaag catgaagctg ggctgggtacc gctccgaatg taagccatat 240
ccatctgcca tggaaataga ccaaattcta ccattcacct ggtactccgg aagtgtctaaa 300
catgtggtac cgtccattcc ttgcgagcac aggccacgac gttgaggaca gcacga 356

<210> 37403

<211> 283

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-C2

<400> 37403

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ttaaagggtgc cacctttacg gtcattgataa tgcaacgaat tacctttttg ctactggtcc 180

tgaaaaataa tggagtctgt ctataatctc aactacatgg ttggtaaaac cttgccgtga 240
aacaattatc tgggctactg ttaattacat atttttgagg cta 283

<210> 37404

<211> 106

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H11

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<210> 37405

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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ccctagggcc gctggcttcg acttcttctt gagcaatagg agcaatgact cgccacctgt 180

ctacaggaag gaacccgatg acgcggcatc gcagtccgag tctgacgcga agtctgcaga 240

cggtaggat gatggcatcg cctacacgct gcaccagaga gttcttgagc tagaggacga 300

gctcaatgcg acaaaccaga aactacaaga tgacagcag aagcttgagg ttctggagga 360

aaagagcttg angtgccatt gcgattataa agagaatgga aactgagctc agcgaactac 420

agaagtttc 429

<210> 37406

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H2

<400> 37406

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 atggagttca ccgaagctga gagcaacatg aacgatctgg tgtccgagta ccagcagtac 240
 caggatgcca ctgctgatga ggaggcggaa tacgaggacg aggaggccat ccaagacgag 300
 taagggtggg ttgggccctg ccacatttgt acccttggtt cctttcattc cggggcttgc 360
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<210> 37407

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H3

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 gagcctagat ggggatggag agatgcgaac cctgattcta gaggcacatc cgctggtgta 360
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<210> 37408

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H4

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acaacgctgg tacgaacaag gcggcattca gcggtacatt cctcaacacc aagcgctctg 360
acgacgacac cgaaaacctt ggccatgaac gagttc 396

<210> 37409
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H6

<400> 37409

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tggccttctc ggcgatgctg gcgtccggct gggaccgggtg tacgaccggc acaagcgcg 180
cgcccggggtt cgtgcccgga aa 202

<210> 37410
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H8

<400> 37410

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aacttcaggg ctagagtttg ttccttgcc ggtgatccat ggtgaagact acatttgttt 180
gggtttcctt ttcggaagga aatcaaaagt tgcttacata tcagatgttt cacggtttcc 240
ccaagcaca gaatatgcaa tttcaaaatc tggaggaagg caacttgatt tgctcatctt 300
ggattgccta tacaggacgg gttctcacia tgtgcacttg tggtgggacc agacactaga 360
tgctgttagg aggaattgcc ccaaagagc acttgctatt gggatgacct acgagatgga 420
tcatcacaag gacaa 435

<210> 37411
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-034-Q1-K1-H9

 <400> 37411

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 ccgtcgccgg cgaggctccg acgaccgggg agcaccggat ggggactacc atcgtcgggg 180
 tctgctacga gggcgggcgtc gtcctgggcg ccgattccag gaccagcact ggagtgtatg 240
 tagccaaccg tgcttcatac aagattactc agctgacaga caatgtgtat gtctgtcgct 300
 ctggatctgc tgctgatata caagtcattt cggattatgt acgctattt 349

<210> 37412
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-035-Q1-K1-A1

 <400> 37412

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 gaccgaagct ctaccacttg ccagttagcc tgtccaggaa ctgcttggcc ggagatccaa 180
 acaaacctct gtgttggggg tctccggggg tccttgcgct ggagggagggt ttcgatctcg 240
 ctggccatgg tttggctgag aagcagcagc ggcagcatct tgatgccaaa tctctgagct 300
 ttatgaagat 310

<210> 37413
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-035-Q1-K1-A10

 <400> 37413

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tagtggccgc tgtccgtatg cctagtata agcaccgccca caacctagac gctaagggtga 120
tagacagcac aatggacagc agtgtatgct acatctacgt gcagagctac ctatattgcc 180
aatgcgttgt ctgacggtga acagctcttt acctatacta catatgagct agtcatgctt 240
acacaggtta ccagagactg catgccatgt actattggag agatacgtca attttagggt 300

<210> 37414
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A11

<400> 37414

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gccaaggcgc aagaaggcgc ccaaggagaa gaaggcgctt aaggagaaga agctttccgc 180
ggcgaagaag ccggcggcgc accctcccta cgctgagatg attgtagagg cgatcgctgc 240
cctcaaggag aggaaggggt cgagctcggg gccatcagc aagtacgtcg aggggaagca 300
tggcggcaag ctccccacca acttccgcaa gcagctcact gt 342

<210> 37415
<211> 188
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A12

<400> 37415

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cagaacattg ctacgcgaga cttatcgtc gccatgcctt ctaagggaca gggctggtac 120
cctatcacca acgtgtggca caggggttaa cctgccatag atgaccacta tgcccatgga 180
ccgaaggg 188

<210> 37416
<211> 412
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-A2

<400> 37416

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ccctttgctg gcgacgggaa cccaccacac cgcccgccaa cctgaggttt tgtgggctca 120
gcgctccgag aagattttct tgactatctc attgccagat gcgaaagatg ttgtgttaaa 180
gaccgatcct aagggcctct ttaactttct tgctgttgct catggggaac cttttagctt 240
cactttggag ctttttgatt caatactgtc agagggaagt aaaacgaaga caaagatggg 300
cctgcgaaac ataatctgct caatccagaa agaaaagaaa ggttggtgga agcgcttgct 360
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<210> 37417
<211> 433
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-A3

<400> 37417

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ctaagctctt tgccgatcaa gaagaacgcg aagtgcgaag actaactgct actgtaataa 120
atcatcagtt gaagagattg gagttgaagc tgaagcagtt tgccggaagtt gagaccttgc 180
tcttgaagga atgtgagcaa gtagaaaggg ttagacacag gatttcagct gaacgcgtca 240
ggatgaggtc agccctatta ggtcccaccg gaagcgggtct accagggggc agttgtagca 300
ctatgccatc aaatccagca ggcatgagcc ccagaccagt cgggtgtgcca ggctacatgc 360
cacagaccag catgccagcc acatatgcca acaacctgca ggggcatggg aatnctcaga 420
tgccgttctt aca 433

<210> 37418
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A4

<400> 37418

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gctttgtcaa gggctgcat gcttcggtgc tgttggacaa cagcagcagc atagttagtg 180

agaaagggtc caaccgaac aggaactccc tcaggggggtt tgaggtgatc gaccagatta 240

aggctgetct tgaggctgcc tgcccaggca cagtctctctg tgccgacatt gttgcccttg 300

ctgctcgtga ttccaccgcc ctggttggtg gaccatactg ggacgtgcca cttggccgga 360

gagactcggg cggtgcatgc attcaggg 388

<210> 37419

<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A5

<400> 37419

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gctcctgaga ttccagctcg cttctcctcc agaggtcaga gcagaccata ctactacgac 120

cgaagctcgt ccacttccca gtgagcctgt ccaggaactg actggccgga catccaaacg 180

cacgtctgtg caggggtgct ccggagcacc ttgcgctcga cggaggttct cgtcttaatg 240

gccatgggga gactgctaag gaccatgggc ggcacctga tgccaaatct ctgagcttta 300

tgaacatagc cactcacatg tg 322

<210> 37420

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-034-Q1-K1-H10

<400> 37420

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cgatggcctc cgactcgggc gatttcggtg gggagaacaa gtcgttgga acggcgaggc 120

ggctgctgga ggagaccttc acgagtgagg cagaggcgga ggcgctaccg agcttgccct 180
tcgggttcta cgacgccttc gtcctgaggg gaatccgcgt cgtccaggcc cttcagcccg 240
gcacactcct ctgccacttc aacgtgccct tcagactact caactcgggc ggcttcctgc 300
acggcgggcg aaccgnettc ctctgggatc tngtgectn cgcgcnettc gccactgccc 360
ggctacgcac caggggcttc accccttgag atgaacatct cctaccttga tgctgctttt 420
gctgatga 428

<210> 37421
<211> 190
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-A6

<400> 37421
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ttacacaaaa gaaaggcagc gccaatatca acaacaacac atccctcacc acatcagaga 120
tatgcaaaga ctaaccaaac tataatacta acacacacga ctaatgccat cacaagacc 180
taaccttaca 190

<210> 37422
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-A7

<400> 37422
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gattacacat atgtgagtca acgccactag agagcacaac ggccgcctac caataggata 120
caagcatgtc aaaaccaatg tgattggaac aggctacaga ctattgggta cacaatatgc 180
ttgtttttta catatatgcc tagaaacatc atgtggacgc cgtattatgc cgccttaacc 240
aggcatgga gacgccttag gccctgttcg tttatcctga aattcctccc gagaatcggt 300
ccaactgatc aaagcttata taaattagtg aagaaatccg acccagattc attccagaac 360
gaccattccc ggggaaccga acatgcccat tcccggggaa ccgaacatgc cctaaact 418

<210> 37423
 <211> 389
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-034-Q1-K1-F4

 <400> 37423

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gcagttgctg aagccaacca cgctgtgcag gaggcaaagg ccgagaagga gaggcttcaa  120
gagaagcttg cacacacgga atcagagggt gctgtggcca acatggctgc acatgaatct  180
aagattgagt tcgacaggct tcaagagaaa cttacatata cagagttggt ggttgctgaa  240
gccacaagg ctgtgcagga ggcaaaggct gagagtgcgc atctgaagga gcggttactt  300
gacaaagaga atgcattgca gagcataacc cangagaatg atgaattcaa gatgcgagaa  360
gctgacgcca tgaagaaaat agacgagct                                     389
  
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<210> 37424
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-034-Q1-K1-F5

 <400> 37424

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tcatggcagc gacgtcatcc ccatcaagga catcagcttc caggacatgt cggtaggcat  120
cagctacaag aagaagcaca tcttccagtg ctctacctt gaggggctg tcgtcaggcc  180
cgtgttcccg aaaccatgtg agaacctgga cgtctatgat gagcaagggc agcttgtgaa  240
gcgggcagtg gccctgaaca gcacagaact tgactacgat atatgagggt cacatatcat  300
accacagctt tgatagttgt agtggaatt ggtgctctct accctcagaa atcaattntc  360
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at                                                                                   422
  
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<210> 37425
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F6

<400> 37425

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gcatgagcag caggaatggc tgcgacgcgt tgtctctctt gctttctcct cgccgtgctt 180
ctggcaggag tggcctgtgt caccgacttt gacgaagcgg ctgctgccgg cttcgggctt 240
ggccacggcg cgcgtttcgc gcgcaagcat ggacttgctg ccgatgagat gccccagccg 300
gagccacaac ctataactaa accggagccc catat 335

<210> 37426
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F7

<400> 37426

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accagaagcc tgcttaaata aatgccagta ccagagtggg cgattcctta agagaaggat 120
accattatg atggtatgaa tgagttgccg tatgtggcgt tatctttag tagactagccg 180
tctgtgaaca tgtgagaact atgttggtct agcctgttaa acgaaatgat ctgtactgtc 240
ttctataggg tcttggtaca caagagttgt acaacataag atctgtctgt gcagtccagg 300
gagcagcgtg tcgtactgc tgtaatgcc ggcaaacgat cctgtgatcc tgcgccaaag 360
tttgtttctt ggt 373

<210> 37427
<211> 202
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F9

<400> 37427

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 atagatatata aataatatat ttaaaaaaat aaaattatat atataatata ttttaaatat 180
 atatttttaa attaatTTta tt 202

<210> 37428
 <211> 262
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G1

<400> 37428

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 ctggcggcgc tgctgggtggc cgccgaactc gtcggcggcg cgcgggcgca gctcaaggag 180
 gggttctacg actacttctg gccacatgcg gagaagatcg tcaaggacta cgtgaaagcg 240
 cacatgcccc acgcgccccg cg 262

<210> 37429
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G10

<400> 37429

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 atggcggggc caggagacaa ggtggactac gtcttcaagg tgggtgctgat cggcgactcg 180
 gcggttgga agtcgcagat cctcgcgcgc ttcgcccgc aagagttcag cctcgactcc 240
 aaggccacca tcggcgctga gttccagacc cgcacccctc tcatcgacca caggagcgctc 300
 aaggcccaga tctgggacac c 321

<210> 37430
 <211> 414

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G11

<400> 37430

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 agacggcaga gaacttccga gctctttgca caggagagaa aggggttggc aagagtggca 360
 aagcccttca ctacaaggga agtaagttcc acagaatcat cccagcttc atgc 414

<210> 37431
 <211> 452
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G12

<400> 37431

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 caagcaggag acaacaagag gatgtgataa atggtgatct ctgcgagcag tatccctccc 180
 tcccagctga tatgtagagg aagattgctg atcatctgga tagaacttcg acgcctgcag 240
 cactgcttgg tgaggattgc caaggaggaa gactagaaca gacaagagca gcgctaata 300
 gtgacagagc atgatgccat ccagatggga caagataagg catgttatgg tgttctctgg 360
 tttctcatcg agaatagctc tttctctttc gtcaagggtt tcaccaatgg cttgtaacaa 420
 ctggatgtaa aacatttttg gtttttaatc ga 452

<210> 37432
 <211> 54
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G2

<400> 37432

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<210> 37433

<211> 110

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G3

<400> 37433

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ggccagagaa aattataaaa aaaggaaaaa aataacatag agacagtgga 110

<210> 37434

<211> 408

<212> DNA

<213> Zea mays

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<400> 37434

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tgggcctggt gcggggcccc aagtacgacg gcgtgttctt gcacgacaag atcaagagcc 120

tgacgcacga cgtcaggggtg gcggacacgg tgaccaacgt catcgtgccg gcgttcgacg 180

tcaagtacct gcagcccatc atcttctcga cgtacgaggg caagaccgac gccctcaaga 240

acgcgcacct ctccgacatc tgcacagca cgtcggcggc gccacctac ttcccggcgc 300

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gcggcgctgc gggcaaacac cccaccatgg tcgccatgtc catgtctca 408

<210> 37435

<211> 439

<212> DNA

<213> Zea mays

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aagttgctcc atgaggcagc gggtcacgtg gtgacgggtg agctcaagac cggcgaagtg 120
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ttcaccgtca aggatgggaa ggtttcgcag ctggagcacg tcttcatcag aggaagcaga 240
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gcgagaatta agggcaaagg atcagctatt ggagttgggc gtggacgtgc aagtgcaatg 360
cgtgctcggg ctgcttctgg tcgtggtggt ggtccttggt gggccatggc aacgcgcctt 420
ctgtgaggag gtaggattt 439

<210> 37436

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G6

<400> 37436

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cttaaactct gggatattcg atgtggtctg gtaacaaaag aatttcagag aagccttggg 180
accatccttg acattgactt cagtgtgat ggaagacaat ttatctcttc aactgacaca 240
accagaagca atattagtga gaacactata attgtttggg atgtcctgcg acaagttcct 300
ttatctaacc aggtttatac cgaagcattc acatgcccggt gtgtaaggta ccaccacgt 360
gaagcatcat ttgttgaca gtccaatggg aactacattg ctatgttttc agcaaggcca 420
ccctttaagc tgaac 435

<210> 37437

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G7

<400> 37437

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ataacactgc aaaaaaagag agaaggggaa aacatggtca tctccaatac aagggcaagg 180
gattttggat ccatatgctg cagatcaaga gcaaaagcgg cttatgctcc aaaggtttca 240
ggaagagaac cctgggttcg acttttcaca ggctcagttc agtggaacct ggctgaccc 300
aagaaccttc atgggagggg tacgctccga gtgaagcacc ctacctgcct atgtacgttt 360
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<210> 37438
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F3

<400> 37438

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ttgcgaagca cgaagagacc agtaaagtcg agaaagacag tgttctcaga gtaacacggg 180
aaggaaagga acggaggaaa cgttggggccc aacgaagaac atcctctaaa ccagataaga 240
aggcgccaaa ggaagtagaa gatgaagata ctaaaaaaag tgaggagcat gaggagacaa 300
atactatgcc tggcatgctc ccactagtg taattgaaat tctagcagct cgtgagaagc 360
aaaccttcgc atcagattcc gaggaagaaa atgtaaagca gaatgtccag aggagaaaga 420
agagaatgga aactg 435

<210> 37439
<211> 314
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-034-Q1-K1-G8

<400> 37439

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ggatcatcaa aacctgcatg aatgaccaa aggagaaatt gtggtccatg ttgcaaaagc 120
ttaatgttac catgaaggct gatgagaagg agttgattgg caaagctttg atgaagcgtg 180

ttatgcaaac gtgggtacca gccagcactg cactttcttga gatgatgata ttccacctta 240
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 atggttatgc aact 314

<210> 37440
 <211> 225
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-G9

<400> 37440

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 aaataaagcg gagcacatta agcagtataa gtgcccctcg tgcacaggaa gcaagaaggg 120
 ccaaggctgg atccaatcaa tcaacaagtt agatttgaat ggcggccaat gttccaggaa 180
 cggaggagcc tttaacaaag agtggagaat gaattttccg ggtgg 225

<210> 37441
 <211> 426
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-034-Q1-K1-H1

<400> 37441

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 tggactgcag tatggggaga tgaagctcta ccttgatttg cactatctac acttagtgcc 120
 tcagtgatgc ataaactacg accgcagcct gcctgggac gtacctgcac tgcagcagct 180
 gcagctggcc tcctctggga gttgagctcg cggcctgagc tcatctcatt tgggttgga 240
 aagcaagccg aagcgggtgga atgctcgta gacaacttgc tggatgctct cactgccagg 300
 cggcttcgtc tgggcccagc gataactcgg aaacagagac ataataagaa ctgcatatag 360
 ggaaagaaga aactcacagt aacagaggag catggtgtgc caatcagtgg aaagctgatt 420
 tcattc 426

<210> 37442
 <211> 359

<212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-034-Q1-K1-E10

<400> 37442

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 aggaagccaa aaggagaacg agttcgggaag ggagcggatg gcaatggctc tgctccagct 120
 attgctgtcg ctctcctcgc tctcctgcgc cgcgcagtcg ccgtacgcgt cgaaggctcc 180
 tccgctcagc gcctcggcgc cgggggggctc tgtcgcgccca ccgacaacgg cgggtctcggc 240
 gccgcaggcg tctgcacagc cgccgacaac agtcgcccg tctgggcctc aggcctcggc 300
 cgtagcacca aaaaaagcag ccttggcgcc acaggcctct gctgcgccgn caactacag 359

<210> 37443
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-E11

<400> 37443

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 ttcgtgggtg agcggatcga gatggcggcg tcggatgttg agtaccgctg cttcgtcggc 120
 ggctcgcctt gggccacgga cgaccactcc ctccacaacg ctttcagcac ctacggcgag 180
 gtctcgcagt ccaagatcat cctcgatcgg gagacgcaga ggtcccgcgg cttcggcttc 240
 gtcaccttct ccacggagga ggcgatgcgg aacgccatcg agggcatgaa cggcaaggag 300
 ctggacggcc gcaacatcac cgtcaacgag gccagtcctc gcggcggccg tggaggcggc 360
 ggccgcggcg ggtacggtgg tggccgtgga ggccggcggt acggcggtgg cgggcgccgt 420
 gatggcggcg gcggctacgg cgggtg 446

<210> 37444
 <211> 447
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-E12

<400> 37444

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aaataaggca gatagtcggt gataaattta cgcaccaatt agcaatggag ctcatcaagg 120

aatggtacct tgctttctcag gccacaacag gaagcactgg atgggatgac gatgatgctt 180

ttgttgctg gaaggacagt cctgaaaact acaaggggca tatccaaaag cttagggctc 240

aaaaagtgtc tcattcgctc tctgatcttg ctgactccag ttcagatctg caagcattct 300

cgcaggggtct ttctacgcta ttagataaga tggatccctc tcagagagcg aagtttggtc 360

aggaagtcaa gaaagtcctt gattgatgat accaacacat ccaacacaat gtgtgcatgt 420

cacatctttt tggcttagta catacat 447

<210> 37445

<211> 432

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-034-Q1-K1-E2

<400> 37445

ccgtccgcgt gaccgccgtg ggctnacgcc accanctcga gtaccctcca tcttcccttc 60

tcaagggtacc gaaagttccg naatctgttc gagtacctcn gnntcgccgc ccgtctggtt 120

ttggcccccc ttttccacag ccccgctcgt tgtctgtcag caggggtacct cnnccagagc 180

tcttcatnnc tccatttcnn cacggctcag ggtgaatcca actggagtgc catttcnnca 240

cgctgnngcc tctattggcg ttcgtttctc ttccaccaga aaaggatgcn naccgccaga 300

aattgggagt cccccagaa cctggattga ccaagctctt gattgggccc tcgccggaag 360

atgggagtcc cccaaggcg ccaactcaac cttaatccct tctcaacgag ataagttgtc 420

gacantcaat gg 432

<210> 37446

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-E3

<400> 37446

cccacgcgtc cgatcagcag tttatattgt gttttgtacg tattaataat gcaagaatca 60
tagcaaaacg agcaaaattt gaatccatca gctgtttata ttgtaataaa gtatgacaag 120
ctctctgaaa aaaaaatcag ttgcgtaatc tgtccaatgt tgcatttgag ctattgcgct 180
agttaatcct tttatttttcg gtatgacttg cagtgcctct agagatggag attctatgct 240
aagggttttag gagctgcatg gtggatggta cattgtgctt tctgcgccgt gcttcctgaa 300
agtctatctg aagttagttt aaagtatggg ttatgcaagt gttcccgata tttcccacga 360
tggattcgag ccttgtgctg aacttgtgct agcctagcct gttataagat ctatggtaac 420
gatgactgca atttatcta 439

<210> 37447
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-E5

<400> 37447

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tttgacaatg aaattgatat gctcggcctt gagacctacc ctggcgtcaa gcgcatcacc 120
atcaagcccc agactgaccg ctgggtgttc cccgagacca aactggcat cattgtcctt 180
gctgagggtc gcctgatgaa ccttgggtgt gctactggcc atcctagctt tgtcatgtcc 240
tgctcattca ctaaccaggt cattgccc aa cttgaactgt ggaaggagaa gagctctggc 300
aagtatgaga agaaggtgta tgtgctcccc aagcaccttg atgaga 346

<210> 37448
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-034-Q1-K1-E6

<400> 37448

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ccgcgcagcc atggcggaac agactgagaa ggctttcctc aagcagccta aggtgttcc 120

cagctcaaag aaatctggca agggtaagaa gccaggcaag ggtggcaatc gatttttgaa 180
gagcattggc cttggtttca agactcccag ggaagcaatt gaagggacct acattgacaa 240
gaaatgtcca ttactggaa ccgtttctat cagaggcaga attattgctg gaacatgcca 300
cagtgctaag atgaacagaa ccatcattgt tcgcaggaac tatctccact ttgttaagaa 360
ataccagagg tatgaaaaga ggcaactcaa cattccagct cacatcntcc catgcttncg 420
tgtgaaggag gcgaccatgt catc 444

<210> 37449
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-E7

<400> 37449

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ggcctccgcc ctactggccg gacagggcgg ggcgcgccac cagggtctggg gggagacgcg 120
cgccccactc ggcgccatac ctcccaaccc taaccccagc cagccccacc cgcgcgccga 180
cgggtccaag tccaagccgc gggcggcagc ctctcgccg gcggccggat acgtgacgtt 240
ccgcccggcg tccttgggcc cgcgcgaggc ccgcgcgctc cgggaccgcc tcgcggggga 300
gtcaccacag gtgcgcgccc tcctctcccg catcgacacc tggcagcagc agggcccgcc 360
gcccgcgggg ctccgcggcg aggtgcggaa gcggtgcggg cagatcctta ccaggctgcg 420
caaggacaaa gcgagcgtgt ggttcaacgg cgccg 455

<210> 37450
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-E8

<400> 37450

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gcttttctact tccactgcat cagcaggtgg ctttaagactc gccaaagtgtg cccattagat 120
aacagggagt gggagttcca gaaatatggc cactagttcc tgggcaccgt catgtggtgt 180

tgggactttg ctgccactca agtgtttttg tctgccaaac agtcccatct cttactgctt 240
 tcgatgcttg catctatcac ccgtaatta taactagcta gcagtacgta cacctgggac 300
 tgtatttggga ctatccattg agaggatagt agggccattt tatcaatggg atgtggatct 360
 tcataagtga gc 372

<210> 37451
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-034-Q1-K1-E9
 <400> 37451

aatctatgcg cagggctgag ctgactcagt ttcaaaagca agttgaggag caatatctct 60
 caaatgtgga gaggcaattg gagaggatcc agaatgcccg gaacgctcgg aaggcgaacg 120
 ggcctggtaa catgcaagaa atggacaagg agctggacac ccacagggcg gagcatggtc 180
 caaagcctcg gcgagttccc gaggagggcg gcaatgatga cgacgaagat gcagatgaca 240
 tggctgtgga agacgagctg atggatgaag ttttgggcat caacgatgga atcaatgagg 300
 acccatccaa gccgtccgaa gaagctacta ctgaaggtea gccagcaccg gaggaagcac 360
 aataggattc tttgttcaca caagtaagc gtaccattcc ggcattccgt atgcttagtt 420
 gccgtcttgt tgggtgctgc ctgtg 445

<210> 37452
 <211> 387
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-034-Q1-K1-F1
 <400> 37452

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 ctgctcctcc tcaccccact ccccgagcagg agcggcgggcg gcggcgggcg ggtcgtaccc 120
 cacatcggcg agcggcgggcg gcaccgccgg agggcaaaggc aagatgttcg ggcgcgcgcc 180
 gaagaagagc gacaacacca agtactacga gatcctcggg gtgccaagt cggcgtccca 240
 ggacgatctc aagaaggcct accgcaaggc tgctatcaag aaccaccccg acaaggcgcg 300

tgaccccgag aagttcaagg agctcgaca agcctatgag gttttgagtg atccagagaa 360
acgtgagatt tatgatcagt atgggtga 387

<210> 37453
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F10

<400> 37453

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ggaaagtcac tgcttaactt tgttcagatt gatcagttga gaatttattt tgattcatca 120
tcgaagaagt ttgttatggc caagaaccct cctgtttcta aaactaacac ccctcttcac 180
gaatctcctg atgcacttaa aacaagtggc actgaaatgg attatgaggc tgctagaaga 240
tttgattcag tttcttctaa tatgggcaca ctgcagtcta aagtgcagtt ttgtcctgat 300
ggtgacgatg atgaagaaat tgttttcaag ccaacagctt ccgaaaagtt tccgaaagct 360
ccttcagatc tgttggttaa tggatacact catcctgtac ctatgtctac t 411

<210> 37454
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F11

<400> 37454

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ccagggtgtc aacgaattca attcgcgtaa accagatgag ctgaatatat tcaagggcat 120
ttcagggaac catctgttta ttggcatcat agctataaca gttgtactcc aggcgcttat 180
agttgagttc cttggcaagt ttgcctcaac ggtaaggcta agttggcagc tgtggttggt 240
atctataggt cttgctttct tcggctggcc gctggcattc gtggggaagc ttattcctgt 300
tcctaaacgt ccattgggag aattctttgc atgctgctgt atctgcaaag ggagcaaaca 360
agcccctgac gacgcaacct ctaatga 387

<210> 37455

<211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-034-Q1-K1-F2

 <400> 37455

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 aggaactatg ctccaaaatc aaggtgggtg atagatgtga agttgagcct ggtgccaaga 120
 ggggcactgt aaaatttggt ggtagagctg aagcccttgg acgtggattc tgggttgag 180
 tgcaatatga tgagccactt gggaagcatg acggcatggt gaaaggcatt cgcttctttg 240
 agtgccctca aagtcatggg gcaattgtga agccagagaa aagtaaagtt ggcgactttc 300
 cggagagaga ccattttgaa gacgaggacg atgacgagat ttgagtgcgt gtgcgttttg 360
 aaa 363

<210> 37456
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-034-Q1-K1-E1

 <400> 37456

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 ggaagccgcg gtagcactgg tagcggcagc agtaaggggg agatgtcgtc ggcgttcagc 120
 ggcgatgaga ccgccccctt cttcggttc cttgggcgct ccgctgcgct cgtctttctca 180
 tgcattgggg cggcgtacgg gacagccaag agtggcgctg gcgtggcgct catgggtgtc 240
 atgcgccag agctcgtcat gaagtccatc gtgcccgtgg tcatggctgg tgtgctcggg 300
 atctacggcc tcatcatcgc cgtcatcatc agcactggga tcaaccccaa ggccaagcca 360
 tacta 365

<210> 37457
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-034-Q1-K1-C4

<400> 37457

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gagatctgct ctcgctcttc cgggggcttg cggcggaggt ctggacgtac atccgggtcg 120

tcgagcgctc cgggctcgag ggctcggatg agtcggagta ctctcggat gaggatgact 180

cggacggcgg cagcaaggac gaggacgacg acgacgaaag cggtgggcggc ggtgacggtg 240

acggcagcgg caggggcggc agcggcggca gcaaggatgg tgacggcggc tgcagcaggg 300

gcggcaacgg cggtggtggc agcagcagag gtagcaccag gggcg 345

<210> 37458

<211> 70

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C6

<400> 37458

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tagatcgcca 70

<210> 37459

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C8

<400> 37459

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aggctctacc agatgcagga gaccggcgcc ctctcttcc ctgccattaa cgtcaacgat 180

tccgtcacca agagcaagtt tgacaacctg tatggttgcc gccactcgct ccctgatggg 240

ctgatgaggg ccaactgacgt tatgatcgcc ggtaagggtg ctgtgggtctg cggatacggg 300

gatgtcggca aggggtgtgc tgctggcctt aagcaggctg gtgcccgtgt cattgtgacc 360

gagatcgacc cca 373

<210> 37460

<211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-034-Q1-K1-C9

 <400> 37460

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 gcagcggcag tgttgaggcc aaggccaccg acccacctct ctcatagcac tagcagcaat 120
 ggaggtggag atcctcgagt cctgcatggt gaaaccacgc gacgacatag ggacgccgcc 180
 gccgcccattg cactgtgtct ggctctccaa cctcgatcta ctctgtggcca ggagccacac 240
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 cagtgtgcc ctgtccaagg cgctcgtccg cttctacccc ctgcgcggcc ggctcgcgca 360
 ggacggcgcc ggccgcccgc agatccactg caccggagaa gggcgcgtcc tcgtcacgcg 420
 gcgcgccgac gctacccttc aggacatccc c 451

<210> 37461
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-034-Q1-K1-D1

 <400> 37461

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 tatctgccgt gaattgtcac actgcggagg cttatagaa agccacttac gcaattaaag 120
 attcaggaaa tgacatcgaa gggttagcag agcgcagatg gcgtgaatct gtaccactgc 180
 agccaaacac ttcacagcag atttttagc tattgttggt ggtagagggt ttccgcttct 240
 cttgtgtaac tgaaagctcg tctttatttc aatcactata cttttcttga cag 293

<210> 37462
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-034-Q1-K1-D10

 <400> 37462

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 ctcccccaatt cttcccgagc gcgcgcaatc cagtagcttc cgacgtcttt tttccagccg 180
 cgcacgcagt tttgttcgag gaaaggaggg caagagcggg agacacacca tcgtcgttgg 240
 aggagccagc caaggcggtg gagtgtgaga tgatacatte gggatatgaa ccagtcgggc 300
 gcgacgatct aaacctatcg aggcaagcac gtcgggataa caacgtcggc ttgcagcgtc 360
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<210> 37463

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D11

<400> 37463

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 cggcctactc gcgcctcttc aagtcggcgt gcccgaaggc ttactcctac gcctacgacg 180
 acccgacgtc catcctcacc tgctccgccg gcgcctccta cgtcgtcacc ttctgcccgc 240
 accgccgctg aactttttatt tttttaaggt cttcgccgcg gtgttggttag ttatcctctg 300
 cctgcgtttg cgttttgatg ttctggcgtg cgttcgtttc acttgctcc gtcacgcgtc 360
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<210> 37464

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D12

<400> 37464

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 atcacccag ccaaagctga cgctgatcg tcacgtatt attcactcac atgtgatgct 120
 gcggctgcga ctctaaacc ttaaacttag aaatagctgg ggattgggtt tgcattgcat 180

cgtgttcttg ccggtctagc aagtgactat aagaataatg gaataaacga tgacccagtg 240
 tgtgtatgat ttccattctg aagaacaaca catcccttgc aggattgttg ttcagtagat 300
 ttactttgta ccgcggcttt ggagttcccc aaaggacttt gttcaagaac ttcttctctc 360
 acaggaaata acatgagtgc agtccgtgct tttatcaaaa aaaaaaaaag gaaaa 415

<210> 37465
 <211> 320
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D2

<400> 37465

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 cattcgtggc cgtctctctc ctctgctctg cctcctatct catcggcgtc tggcagcacg 180
 gcggcttcgc cactccatcc gacaaacccg acgacgtctc caccgctacg gccgtcgctt 240
 gcaccaacgt cgccgtcgtc ccgaagagga ggacccggtc cggcgccagc ttcccgggcc 300
 tcgacttctc cgcgcgccac 320

<210> 37466
 <211> 419
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-034-Q1-K1-D3

<400> 37466

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 gaccttatga agctgatgat gagcgactac aaggtggaga tggatgaacga tgggatgcag 120
 gaattcttcg tcgaattcaa ggggccggcc gaaagtatct accaaggcgg tgtctggaag 180
 gttagggtag aactgcctga tgcatacctt tacaaatccc cgtccatcgg ctcatcaac 240
 aagatttatc accctaattg tgatgagatg tctggctctg tatgtttaga tgcataaac 300
 caaacatgga gcccaatggt tgatctagta aatgtttttg aagtattcct ttcacagctg 360
 ttactatatc caaatccttc tgatccatta aatggggagg ctgcancact tatgatgcg 419

<210> 37467
<211> 54
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D4

<400> 37467

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<210> 37468
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D5

<400> 37468

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aacaagttcc attctgtcat atcgtttaag cccacaatgg taacgatact gtcccctgag 120
gttgagagaa aagaagcaga agctgggtggg aagatgggtg acctagattc ttatgagatt 180
gaaggcgggtg agacaaaagc agagatattg caaaacctag ctgagttcca gttttcttgt 240
gtcatgtaca atgggtgcct agagaatgca tgcagtgagc ttggagcccg tatgtctgcc 300
atggacagct ctgacagaaa tgctggcgat atgcttgatc gtctcacgct tacttacaac 360
aggacacgcc aagcattcat caccacagag cttactga 398

<210> 37469
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D7

<400> 37469

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cgacgagaag gctgcgatgg ctgcgtccgc tgcagccgag ggtgccggtg ccgccgaggg 120
cgagggcgcg gtggactcca aggaccttca gcagcagagc aaggcgctcg acaagctcac 180
tgatcatgtc gaggaccggc agctcgattc atcccgtgtc caatccgcca tggcagcact 240

tgcttcatcc aaggaggctg actggaacgc gatgaggctg agggagaaaag aattggctgc 300
 tgtgaagatc aacctgccg atgtcgaaat tatcgctact gagcttgagc tggacaagaa 360
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<210> 37470

<211> 410

<212> DNA

<213> Zea mays

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<400> 37470

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 cgattgaaaa gctggcgaaa ctgagagcga aaacaaggaa agtacggtcc atgcaggatc 180
 gagtctggtc agacgacggt gtgacatacc aggagatcac cgaggacccc aacattgaag 240
 gtcctgaggt gagcgtggac aggctgatga tgcggcagca ggtgctgcgc ttcctggcgg 300
 ggatcctgag cccccgggag aaggagatca tcgagcaccg gttcggcatc cacgacggcc 360
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<210> 37471

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-D9

<400> 37471

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 ctgcactgca ccaatggccg ccgtcgaggt ccagggtccc actgccgctc ccgtcgagga 180
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 gaacgaggag accgctgctc cggcggcgga gaccgaggtc gtcgccgcta aggagccggt 300
 gtcggccgaa gccgagactg agtccaagga ggtcgaggtc gaggccgagg ccgtagctga 360
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agagacggag gctgctgctg ccccggt

447

<210> 37472

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<212> DNA

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<400> 37472

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tgccacttga acctaaaggt ggccaactgc ctttgttcag cagtggatg tggatgtcag 180
acattgattc tggatatgag gcagcagaaa ttgcagcttc tactcaaacc tcttcgggtg 240
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atgaccaatc agatggacca tcaacttctg ctggtacatc atcgcagcag aaagtgttac 360
ctcaaagcga gcatcagcgg aattaaaccc gcttcagatc tgcaggaaat tccagagtca 420
aaaacctttt tgctgac 437

<210> 37473

<211> 140

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A9

<400> 37473

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gccagaacta gtttagcagcc taccatggcg aaagtaacat actcgaacca atcttgga 120
gatcctgtca ttcttgtgcc 140

<210> 37474

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-B1

<400> 37474

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 gtcgccggcg ctgcgcgagg agttcgtgat tgcgtccaag gacgacgagg tcgtggacgc 180
 ctgagcgagc atccacgcgc cagcatgcaa gcagcgtctt atctggggcg gcgccatcac 240
 ggggtttctt cttttaatct gggactttgt tgctgttggc cgaatgaatt cccttcgac 300
 ggtagcttt aatctgtctc ggtagtgtgt cgtgttcgtg tagcaccatg ccacacacca 360
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<210> 37475
 <211> 322
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 <213> Zea mays
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 <400> 37475

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 gccattcgtg gccgtcctcc tctctgtctc tgctctctat ctcatcgggc tctggcagca 180
 cggcggttcc gccactccat ccgacaaacc cgcggtcgtc tccaccgcta ctgccgtcgc 240
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 cctcgacttc tccgcgcgcc ac 322

<210> 37476
 <211> 344
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-034-Q1-K1-B11
 <400> 37476

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 gtggctttga tattaatttc ttctgattgc ctcttttcac tataatatat tggagaagaa 180
 atgttctgga tgggtggaaa aaaggattat tggccaatag aatttttggg cttttcggtt 240

gaagatccaa ttggacattt gggtttcacc ccagaaattt aatcctgggt tataacttaac 300
 cacttgggca ttttcacttt ggttattcat tcgatgtaac atgc 344
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<210> 37477
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-B12

<400> 37477

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 actggctatg acctcggcga gtacagatag tttatcttgt acatacaggc catctttaat 180
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 gagcctgacc acagtaacaa tatgtacaac gccgttaaaa tcta 284

<210> 37478
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-B2

<400> 37478

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 gcggtaccgg ggtgtttgcc atggcgaggg gcgtcataag gagaaggat ctgcccgaca 180
 gggccggcgg gaacactgat gagtcaaca tggatgtctt ctgccggccg tttggctcac 240
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 agattggact atggggtgga ccgggagggg cggcacagga catcacggga gagcggccac 360
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 cctatactga cagcgc 436

<210> 37479
 <211> 359

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-034-Q1-K1-B3

 <400> 37479

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 aaccagctct ctggcagcct tgcgcccctc gcgaggctcg agaacctcgt catgctcaac 180
 atctcgtaca acacgtttctc tggtgacctc ccagacacgc ctttcttcca gaagcttccg 240
 ctcagcgaca tcgcgggcaa ccacctgctc gtcgtgggcg ccggcggcga cgaagcctcc 300
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<210> 37480
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-034-Q1-K1-B5

 <400> 37480

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 cagccacggc ctgccagtga cttgaactga tagcgaacca ccactttacg gaaaacagaa 180
 caaatcggat gatgtgagag aaaggtggta gtgaagtcca gtagtggcag agctacttcg 240
 tgcacgtaga tctcttttgc atttctctgg tccagggatt gacttcgtac tcacagtta 300
 cttcacacag aaggtttatg tagccatcct gtgataacat ctactttctt tttgatccaa 360
 taaattggtt attcagcttc cgtg 384

<210> 37481
 <211> 212
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-034-Q1-K1-B6

 <400> 37481

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cttccaaggg ttcccaacct gtgaaaatgc aaccgattgc agtccctgcc attccttggg 120
atgagcttaa ggaggtgact aaaggttttg gtgatgaaac cttgattggg gaaggctcct 180
ttggttagagt atacttaggt gttctaagaa at 212

<210> 37482
<211> 295
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-034-Q1-K1-B7
<400> 37482

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gaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tatagaaaaa 120
aaaaaaaaaa ttaaaaaaat aaaaaaaaaa aataagggtta aaaaaaaaaa aaaaaataaa 180
gggggggggtc tttaaagaga tccaggtttt ttaaaatggg tttcctatatt caaaaatttt 240
ttattgggga ccataatgca aaataacgtg ctcgttttta aaaacagtgg gtatt 295

<210> 37483
<211> 419
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-034-Q1-K1-B8
<400> 37483

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cagaagatga tagtggctgg gaaactgtaa gccaaagtga ggagaatggg tcttgaatt 120
caccggggcg aagtgaaccg tctgtaaatg gcttctgtgg agaaaacgat gcttccgtaa 180
gtggaaccga ctgggatgaa aactgtgaca atgatcaggc acacagtga atcagtgaag 240
tttgttcaac agcagcaggc aggtctcgga acaaaagatc attcgccgga ctatggagat 300
catcaaacac cgtggaccaa aagaagatgg gatccaatac actcaacggg aggtcatcaa 360
atgccaggat gtcaaagcc accgaatctg ctgacctgaa gaatagcgaa gtgtgtgac 419

<210> 37484
<211> 449

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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<400> 37484

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ctcttcggca ccggcatgta cgccgccccg ctctccgtca tgaaaatggg gatccagaca  180
aagagcgtgg agtacatgcc cctgttcttg tcgctggctt ccctcgtgaa tggcatctgc  240
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<210> 37485
 <211> 398
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-034-Q1-K1-C1

<400> 37485

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ccgtcgtctc tcttcggcga ggcccgcgtg acgatgcgca agacggcggc gaaggcaaag  180
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 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C10

<400> 37486

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aggaagaaga tccagaagga gaagggtctt gagccctccg agttcgagga ctccgttgcc 180
caggctttct ttgatctgga gaacgggaac caggagctca agagcgacct caaggacctg 240
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gtcccatacc gcctgcgcaa ggccttcagg aagatccatg tcagactcgt caggagctt 360
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ccc 423

<210> 37487

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C11

<400> 37487

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agccttgttc gtgtatcggc tgtatgaaca accagagtca tacggaaact gttctatcta 180
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gtggtgtggg atgctccata agttgcagat gcgagggctg taagaatgct tttggaaaac 420
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<210> 37488

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C12

<400> 37488

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gttggatgct tggatgtaag gctggggaag cgaagccttt tggccttcac tgtaaaagct 360
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<210> 37489

<211> 381

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-034-Q1-K1-C2

<400> 37489

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ttggactttg gcgggttagaa gaagtttata attttatatg atgaaattat gtgcattctc 180
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<210> 37490

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A8

<400> 37490

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<210> 37491
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-033-Q1-K1-H3
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<210> 37492
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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<210> 37493

<211> 450

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-033-Q1-K1-H6

<400> 37493

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<210> 37494

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-H7

<400> 37494

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acgaagaacg tactaatgaa aagatcgatg aattatattg atatgatatg acgtgagtgt 180

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<210> 37495
 <211> 453
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-033-Q1-K1-H8

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<210> 37496
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-H9

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 gacaatgtca aggccaagat ccaggacaag gaagggatcc cgccggacca gcagcggctg 180

atctttgccg ggaagcagct ggaggatggc cgcacccttg cggactataa catccaaaag 240
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gcgctcgctc gcaagtacaa ccaggacaag atgatctgcc gcaaatgcta tgcacgactg 360
caccctaggg ctgtcaactg ccgcaagaag aagtgtggtc acagcaacca gctgaaggcc 420
aagaagaaga tcaagaact 439

<210> 37497
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A10

<400> 37497

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cttttctgag actctgacac ggatgttggc aagaccacca gcaccgtctt tggtgactgc 180
tcaaactcct gaagtcggca tcttcattac agctcgcaac gtctcgggtg cacttgctgc 240
caaactttct ggtaacaaaa acaagtgtgg aggaagatcg aatgttcggc aacggaacat 300
tcaacctgtg aaaaggggct gtcgtccgga gtggcgggcg c 341

<210> 37498
<211> 342
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-034-Q1-K1-A11

<400> 37498

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cgctgcctg cctgggcccg cagcaccgac tctgacagcg cccgtcctgc ttcctgtacc 120
ggcaggcgag ggagtggact cagggagtgt gatggcggca atgccggcgc cgcttctgcc 180
tctgcttctg ctggtggtgg ccgcgcgat gacgctctcc cccgccaccg nccgcattcc 240
cggcgtgtat gtcggcggcg gcggcgcgcg ctggcagagc gcgcacgcca cgcttctacgg 300
cggcagcgac gcttcgggca ccatggcgcg cgctgcggg ta 342

<210> 37499
<211> 129
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A12

<400> 37499

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cgcttctgcc tagctgtgac cgcaacaccg aactgacag agaccggaca gatttctggg 120
cccataggc 129

<210> 37500
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A2

<400> 37500

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taaaataaaa ccacttcga tgaaaaagga atgatccgag tacagtacag agttcctaca 120
ctccgggtat gaaaactctc ctcatgacaa gtacagtgtt caccgaagag cgaagtaccc 180
ctctcactca atcataactg actttcttac agactactgg aacttaacac aaacacacag 240
atagggacac ttatcaccac agatcgatcg atcgccacca aactttattc ta 292

<210> 37501
<211> 331
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A3

<400> 37501

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accgagtccg acaacatcgc cgtcgccgctc gtccggggcg gcaggaggca ggagctctcc 180
atcttcgaag tcgtcgtggg cgacgtcgtg gtgctcaaca tcggcgacgc cgtgcccgcg 240

gacggcgtct tcatgcaggg ccacgcgctg caggtggacg agtccagcat gaccggcgag 300
ccgcaccctg tcgacatcga cgccgagaag a 331

<210> 37502
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-034-Q1-K1-A4

<400> 37502

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catggccttg gagtgcagaa tttcccagca tcatcatgca aatgatttta tcttacatat 120
tgatactagt agtaaattatt tttggagtcg actattctgt cgctaattct ggtacttcac 180
aactaaacca tatatatctc tgtcttggat ttcagaaaag tccacaagta tggaaagagc 240
acaaccggcg agaggtggga cttggtagtc gacgaggaga catactacga ggcggagccc 300
cattacggat gggccgatgt cgtcggagac tcgacgcagc tgctgtccat acagccccgt 360
gagaggccac cncgcgtggt cc 382

<210> 37503
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A5

<400> 37503

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tgtgtgctga aaaatctagc ttgcacggag cggtgatcat aaacgatatc gtgcatccct 120
acctcgacat cgtccttgtc atggaactag acattggcat gctgacacat atcaatatgc 180
actgcacaca tgactgtggt gatcctgatt gggaccaaaa acatgtgccc gttcaaccag 240
gaagtatcta ttatgcaggc actgcaagtg acccatccaa cc 282

<210> 37504
<211> 434
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-034-Q1-K1-A6

<400> 37504

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ggaccggctg gttctctcgg cttgcgtgaa aaagcgcagg gggagctagg cacgtggttt 120
ccctcgtctt ctgccgcaga cgcttcccgat gatcagaatc caagaaatgg cgggtccagg 180
tccagcgcgc accgcgcgga gcgttgctct cctgtgtttc ctggtttctt gcgctgcgct 240
cgtggacagc cgtggcggag ccagccggcc gagccggcag gacctcgatg tcggcctcgg 300
cggcgggggc gtcggcatcg gcatcggcat cggcggcggc agcccttcgt cgccttctcc 360
gacgccgneg tcgtcgcagc cgcagccgtg cgacttcgag aacgagcggc tgtacagggc 420
gtacctcgtg atcc 434

<210> 37505

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A7

<400> 37505

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caaaacacat cctgcgatcc tcgaagcctc cgccgagcat cgatcatgtc ggctactgac 120
ggcaagtacg cggatgagct catcaagaat gctgcctaca tcggcacccc tggcaagggt 180
atccttgctg ctgatgagtc aactggcacc attggcaagc gcctttccag catcaatgtc 240
gagaacgtgg aggagaaccg gcgggctctc cgtgagctcc tggtctgctg ccctggtgcc 300
ctccagtaca tcagcgggtg gatcctcttc gaggagaccc tctaccagaa gaccaaggat 360
ggcaagcctt ttgtcgatgt 380

<210> 37506

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-H2

<400> 37506

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atagatgagt tcctccccgt cctttggtct cctggctgta gcagcattac tcctagcact 120

gagcttagca caacatggct ccctcgccgc aaccgtcggc cccagggta tcgtcgtcgg 180

cgccggcatg tctgggatct cggcggcgaa gaggtgtcg gagggcgga taaccgacct 240

gctgattctg gaagcgacgg accacatcgg cgggcggatg cacaagacga acttcgccgg 300

catcaacgtc gagttaggcg ccaactgggt ggaaggcgtg aacggcgga agatgaaccc 360

catctggccc atcgtcaact ccacccttaa gctccgcaac ttccgctccg acttcgacta 420

cctcgtcag aacgtctaca aggaggacgg tggcgtgt 458

<210> 37507

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-033-Q1-K1-F6

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gaaggcgcag ccggagtgcc actcgtgcga gtcgggctcg ccgccctcaa ccggcgtccc 180

cctgccccca atcagcatac cgtcagtccc cctgccccca gtcagcatac cgtcagtccc 240

actgccccct gtcagtatac cgtcgggtccc catcccaccg gtcaccacgc tgccccagtc 300

cgtcggactg ccgcccgtga cccttcctcc cattccgatc atcggaggaa gcccgccgaa 360

gaagggccac cggaaggcgt gcccgccgnc ttctgtttcc ccgacgcca cggccacgcc 420

cacgccgttc tcggacaagt gcccacatga cgcgc 455

<210> 37508

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F7

<400> 37508

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atcagtaa at gtttaccatc actatctttg gaggtgggtcc aacgtgttgt ggaaatatta 120

aagcttttca aactaggac ttgccaactt gttctcggtg caggagccat gcatgtgtct 180

ggacttaa at caattacgtg caagcattta gctttggcga gtcaa atcat tagttttatg 240

cattctttta ttccagatat caggcgagta cttttcctga aaatacctga agcgcgcaaa 300

catctgttaa tgtctgagct ggatagagta gctcatgact acaagatcca tcgagatgaa 360

attcacaaca aacttgttca gataatgata gagagggtgc ttgcaa atct tataaaatta 420

ccccaattg tg 432

<210> 37509

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F8

<400> 37509

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ttgtgggtatt atcagccttt acataactgc tatgtttgga tatgttcaat tctgttgcaa 120

ttttatgtgg ttgtttttt 139

<210> 37510

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F9

<400> 37510

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gctcttgctc tcttgcaata atggcgcgtc gctcctctc ctcccagccg cagctgggtcg 120

cggcggcggc ggtcctggca gcggcgctgc tgctgctggc ggcgggggcc gggacggcgt 180

cggcggcggt gagctgcgtc gaggtgacag tgacggtggc gccgtgcctg gggtagcgca 240

tgggcagcgc ggcgtcgccc tccggggctt gctgcaacgg tgtgcgctcg ctcaaccgcc 300

gcgcagtcga ctgcatggga cgggctagcc acctgcaact gtgtaaagag catgacagaa 360
cctctc 366

<210> 37511
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G1

<400> 37511

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aggacaagat cagacctctc tggaggcatt acttccagaa cacacagggt cttatctttg 180
ttgtggatag caatgaccgt gaccgtgttg ttgaagccag agatgagctg cacaggatgc 240
tgaacgagga tgagctacgt gatgctgtgc tgcttgtttt cgccaacaag caagatcttc 300
ctaattgccat gaatgctgct gagatcactg acaagcttgg attacactcc ctgcggcagc 360
gacactggta catccagagc acttgtgcca caactggcga gggctctgtac gagggcctgg 420
actggctgtc cagcaacatt gcgag 445

<210> 37512
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G10

<400> 37512

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ttctctgggc tcggagaacc ggagagaagc gcgcgcggcc atggcgcca gcgcctctcg 180
gttcatcaag tgcgtcacgg tcggcgacgg tgccgtgggc aagacatgta tgctcatctg 240
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aaatgtagtt gtggatggca cactgtgaa tttgggcctt tggg 344

<210> 37513

<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G12

<400> 37513

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ttcataagct cgggtggccag ttccacctgc gctcgatcat ctctgaaggt gtacgggccc 180
gtaacatatg cccatctgtc tcatcttatg aaaggagatt tgccacaagg aactacatga 240
cccagagcct ttggggccct tcaatgtctg ttagcgggtg catcaatgtc ccagtgatgc 300
agaccccgct ctgtgcta at gctcctgtg agaaaggagg caagaacttc atgattgatt 360
tcatgatggg cgggtgtttca gctgctgttt caaagactgc tgctgctccc atcgagcgtg 420
tgaagctgct tattcagaac caagatgaga tgatt 455

<210> 37514
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G2

<400> 37514

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gtggactcca aggaccttca gcagcagagc aaggcgctcg acaagctcac tgatcatgtc 180
gaggaccggc agctcgattc atcccgtgtc caatccgcc a tggcagcact tgcttcatcc 240
aaggaggctg actggaacgc gatgaggctg atggagaaag aattggctgc tgtgaagatc 300
aaccctgccg atgtcgaaat tatcgctact gagcttgagc tggacaagaa gatcgcgag 360
agaacgctcc gtgagcacia gggatgatgcc gtggctgcgg ttcgattcct gctgcgctag 420
ttccgagatt tcgtcgccag catcatatgt tccccttc 458

<210> 37515
<211> 449
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G3

<400> 37515

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gaaccttgat gaggtggagc ctagcatgtc tggcccaaag aggctcatg atcgtgtccc  180
tttgaaggaa atgaaatcag attggcatgc ttgcctggac aacaaagttg ggttcaaggg  240
ttttgcagtg ccaaaggagc agcaggataa ggttgtcaaa tttgactttc atgggcagcc  300
agcagaaatc aagcatggta gtgttggtat agcagcaata actagctgca caaacacctc  360
aaatcctagt gctatgcttg gtgctgggtc tgtagctaag aaagcttgcg agatgggtct  420
tgagggttaa ccatgggtga agacaagcc                                     449

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<210> 37516

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G5

<400> 37516

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gcctaacaaa agtctagatg cattcctctt taatcctgaa aagcaacggc ttctagactg  180
gaagaaacgg tttgatataa tcgaaggcat tggtagaagg ctgctatatc ttcaccggga  240
ttcg                                             244

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<210> 37517

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-033-Q1-K1-G6

<400> 37517

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aagagaagcg cggagtcaag aagcggagca acaacagcag gccgaggaag agaagagaag 120
gccaggagggc agcagccagg aggaagagca agagcaagat gctgcgcggg ggctcgagcg 180
tgctgggggat catcaacttc atcaccttcc tgatctcgat cccgatcctg ggcggcggca 240
tctgggtggc gtcgcgggcc aactccaccg actgcatccg cttcctgcag tggcccatca 300
tcattgtggg gctcgtcctc atggatcatc cctcatggg cttcgccggc gcctgctacc 360
gncagacctg gctgctccgn ctctacctc tcgccatgtt cttcgtcgtc ctcgcgcttc 420
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<210> 37518
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G7

<400> 37518

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cgcgctacat gaaggagtct gccaaagtgt tgaaacagtt caacgccgagc aagaagccca 180
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ctggaagcat actctccagc accgtggcta ataacgcatt gttccaattc agtctggcct 360
tgtcatgcat gcaataaata aagtgatggg tttcccatgt tcaatatc 408

<210> 37519
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G8

<400> 37519

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tcatggcgtg ggagctgatg aacgagccgc gttgccagtc cgacgtgtcg ggccacgcca 180

tccagtcgtg gatcacggag atggcgggcg acgtgaagtc catcgacggg aaccacctgc 240
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 cggggtacca ggtgggcacc gacttcatcg cctggctcga cggccacatc gccgacgcgc 360
 gggcggtgct gcgcaagccg ctgctggtgg ccgagttcgg cgagtcgcgc cacgaccctg 420
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<210> 37520

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G9

<400> 37520

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 ccggcagtgc gagggcgcg cggccctggcg gcacgcctgc ccgatgcagg caaggctccc 180
 ccggcgcgcg tgggcgcgag gcgcggcggc caggccccgt cggccctgc gtgggtgcgg 240
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 cacggcgcaa ctcgggcg 438

<210> 37521

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-H10

<400> 37521

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 gttatcaaag aaggggagta caagttggtg aagactagat ttagtgcttt cttcgcaaca 180
 catcttgatt ctgtcctgaa aactgcagga ataaagaact tggttattgt tggagttcag 240

acaccaaatt gcattcggca gactgtgttc gatgctatag cactggacta tgagaaagtt 300
acggttctaa ttgatgcaac agctgctgca agaccagaaa tccatttgtc caatatcagg 360
gatatgaaga acatcggagt ggacacgcca ac 392

<210> 37522

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-H12

<400> 37522

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accgagggct tttcaatgtg cagaatcatc aattatcca tgtaacagaa gatgttcaga 180
atatgaaatc aaagctcaac aatcttgaat caaaattgga agaggctgaa aagatgataa 240
taaggctaag agaagagagc agaaatacca cccaggagcg ggatgagcta cagc 294

<210> 37523

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F5

<400> 37523

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cttcacttga gaagcgagaa ttgtatcctt gttttgatgg ggggatgggtg agtttgctca 180
gaaaacaata tggctcttgg ttctccgttg cttatgattc ttggtactcg agcactcctg 240
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gcctgtaggt ggtgcttttc agaatgccaa agtatggagt atggactttg tcaaattctg 360
accttaatgc tgagtaaata ggacaaactg gccgacaagg tcaaggagtg caaccaggca 420
gcaccaatga cgatggatgc actc 444

<210> 37524
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D10

<400> 37524

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 gcaagatggt tctccagaac gacattgata tgctcaaccc gccggcagaa ctcgagaagc 120
 tcaagcacia gaaaaagaga ctccgtccagt cgcaccaactc cttcttcatg gatgttaagt 180
 gccaggggtg cttcagcata accactgttt tcagccactc ccagactgtt gttgtgtgcc 240
 ctgggtgcca aactgtcctc tgccaaccca caggaggaaa ggcaaggctc actgagggct 300
 gttctttccg caggaaggga gactagagcg gatgtggtct tcaagttttg ctctatgcca 360
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 atgtgttgca tgttggctac ttccaaactt atatctgg 458

<210> 37525
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-F4

<400> 37525

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 tcgagaagct caagcacaag aaaaagagac tcgttcagtc gcccaactcc ttcttcatgg 180
 atgttaagtg ccaggggtgc ttcagcataa ccactgtttt cagccactcg cagactgttg 240
 ttgtgtgccc tggctgcaa actgtcctct gccaacccac acgaggaaag gcaaggctca 300
 ctgatggctg ttctttccgc aggaaaggag actagagcgg atgtgggtct caagttttgc 360
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<210> 37526
 <211> 417

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-052-Q1-K1-F8

 <400> 37526

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 gtataaatag gcgcctacct tctccgccat tectcggtcc tgtgaagcgt ttcagttcat 180
 cgattgagtt cttggatgcc tctagttgta ttgtgtgttt cttctttctg gtctatgtac 240
 taggactata gtaccaggat ctgagtcgtt tttttttggg tcttgctcct gtctgccgtt 300
 tctttccccc cttccagagt taggttctgt tggtttcttg cctgcaatat agtttcgtgg 360
 cgcaccgtca aggggtgtgc tagactttaa agactgggtg ttggcagttg ggtttat 417

<210> 37527
 <211> 413
 <212> DNA
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 <223> Clone ID: LIB3069-041-Q1-K1-G12

 <400> 37527

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 aacggcgagc tgtaccgcta catctgcgac accaagggcg ctttcgtgca gcctgctttc 180
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 acagcctacg gcggtccggc cgagatcadc gtgcacggcg tgtctggcta ccacatcgac 300
 ccttaccagg gcgacaaggc gtcggccctg ctctgggact tcttcgacaa gtgccaggcg 360
 gacccgagcc actggagcaa gatctcccat ggcgggctcc agcgtatcga gga 413

<210> 37528
 <211> 251
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-029-Q1-K1-B2

 <400> 37528

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gtcctgtaca gccaaaccga gaacacggag cacaagtctg ttctgaacga caggaacaag 120
ccaatcatct tctccatggc tcgtctcgac cgtgtgaaga atttgactgg gctgggtggag 180
ctgtacggcc ggaacaagcg gctgcaggag ctggtgaacc tcgtggctcg ctgcggcgac 240
catggcaacc c 251

<210> 37529
<211> 394
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-008-Q1-K1-C1

<400> 37529

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cgccggaaac aaggacaccg tcggccagta cgagtcacac atggcggttca caatgcctgg 180
cctgtaccgc gttgtccacg gcattgatgt gttcgacccc aagttcaaca tcgtgtctcc 240
tggcgcgggac ctgtccatct actttccgta caccgagtcg cacaagaggc tgaccttcct 300
tcaccgggag attgaagagc ttctgtacag ccaaaccgag aacacggagc acaagttccg 360
ttctgaacga caggaacaag ccaatcattt tttc 394

<210> 37530
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-E7

<400> 37530

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actatttgat ttcatgtctg ctgcattggc taaatttgtc ggtactgaag gtgaagattt 120
ccaactccca gagggtagac agagagaact tggtttcact ttttccttcc cgtgtaacca 180
aacatcaata tcatcaggaa cactcatcaa gtggacaaaag ggcttttcca tcaatggcac 240
ggttggtgaa gatgttgatt ctgagttgag cagggccatg gagaggcagg ggctagatat 300

gaaagttacg gcattagtca atgatacagt cggcacattg gctggtggga gatatatgga 360
taccgatgta gttgcagctg taatattggg cactggtaca aatgcagcat atgtggagca 420
tgcatatgca attcctaaat ggg 443

<210> 37531
<211> 451
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-045-Q1-K1-F6
<400> 37531

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gtgcctgttc gacaagcacg cgcggacggc gctggccttc gtgacgctca agcacgacgg 120
ggagcgcgag ttcattgttct acaggaaccc gagcgcggac atgctgctga cggaggcgga 180
gctggacctg ggcttgggtg cgcgcgccaa ggtgttccac tacggctcca tctcgtcat 240
ctccgagccg tgccgctcgg cgcacatggc cgccatgcgc gcagccaagg ccgcgggcgt 300
gctctgctcc tacgacccca acgtgcgcct tccgctctgg ccgtcgcccg acgccgcacg 360
cgagggcatc ctcagcatct ggaaggaggc cgacttcac aaggtcagcg acgacgaggt 420
ggccttcttc acgcgcggng acgccaacga c 451

<210> 37532
<211> 403
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-045-Q1-K1-F2
<400> 37532

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cgacaggcgc gctttgacgg cgctgggggt cctgactctc aagcacgacg gggagcgcga 120
gttcatgttc tacaggaacc cgagcgcgga catgctgctg acggaggcgg agctggacct 180
gggcctggtg cggcgcgcc aagtggtcca ctacggctcc atctcgtca tctccgagcc 240
gtgccgctcg gcgcacatgg ccgcatgcg cgcagccaaa gccgtgggcg tgctctgctt 300

ctacgacccc aacgtgcgcc ttccgctctg gccgtcgacc gacgccgcac gcgagggcat 360
actcagcatc tggaaagagg ccgacttcat caaggtcagc gac 403

<210> 37533
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F2

<400> 37533

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aatTTgaacc ttaagttctt tgaggTgcct actggatgga agTTTTtttg gaatttgatg 120
gatgctggaa tgtgctcaat ctgtggtgaa gaaagctttg gcactgggtc tgaccacatt 180
cgtgagaagg atggcatctg ggctgtgctt gcatggcttt caattattgc tttcaagaat 240
aaggacaacc ttggaggaga taagcttgtc acttgtgaag atattgtccg tcagcactgg 300
gccacatatg gtcgccatta ctacacacgc tatgactatt aaaatgttga tgcacgggc 359

<210> 37534
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-E12

<400> 37534

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cgTtgcgag gcaggaagag agacgacggc ggccatggcg acctccttcc aggggacgac 120
caccaagtgc accgtctgcg acaagacggT gtaccttgtg gacaagctca ccgncgacaa 180
ccgcatctac cacaaggcct gcttccgctg ccaccactgc aagggcaccc tcaagctcgc 240
caactacaac tccttcgagg gagtgcTcta ctgcaggcct cacttcgacc agctgttcaa 300
gaggacaggg agcttggaca agagcttcga aggaactccc aaggTtgtca agccagaaag 360
aaacgttggg aatgagaatg ctactaaagt ctcaagcgcc ttTgctggca ccagagagaa 420
atgtgttggA tgcagcanga cagtcta 447

<210> 37535
 <211> 136
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B6

<400> 37535

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 ggatggctct gtgtccaagc accagggcat ccgatacctc tttggagatg gttcacgact 120
 ggtgttcgc ctctct 136

<210> 37536
 <211> 396
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-043-Q1-K1-D5

<400> 37536

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 gctataatat cgcgccctcg tcgccatcgt caccacacca ccactccctc actgccctct 180
 cactcccgat ccctgcacca ctaccgcctc ctccgcgtca ccctctcgt cgcctcttgc 240
 ggcgaccggc ggcggatcgt ccgctgcgca agcgcaacca tggggctctt caccgtgacg 300
 aagaaggcca tcaccccctt cgaaagccag aagcccggta cctnctgcct ncgcaagaag 360
 gttactgtat tccagcagcc tcattatctg cagaac 396

<210> 37537
 <211> 477
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-025-Q1-K1-E9

<400> 37537

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gtcatccgca acccatccag agcgaatcca gctaaccctt caattgagct tggacctgag 180
 ttcaagaagg ttgccaatTT ccttggtcgg ttcaagtcca tccccagcat agttgagctt 240
 gacagcttga aggtttctgg tgatgtctgg tttggctctg gaattacact caagggcaag 300
 gtgacaatta tcgccaagcc tggagtgaag ttggagattc cagatggaga cgtacttgag 360
 aacaaggatg tcaatggccc tgaggatctt taagcaatgt ttatcatcac cagttttccc 420
 aaggacatgt cacaggaact gccaaacctt atcactncta ctgagctcta tattttg 477

<210> 37538

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-E11

<400> 37538

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 agctggtgca gctattcgtt tctttgacaa agcgattgga attaattgtt cccgctcaag 120
 atttctcccg gtgaaggcta catctgattt attgcttgtg cagtctgatc ttacacctt 180
 ggttgatggc tttgtcatcc gcaatccatc cagagcgaat ccagctaacc cttcgattga 240
 gcttggacct gagttcaaga aggttgccaa tttccttgct cggttcaagt ccatccccag 300
 catcgctgag cttgacagct tgaaggtttc tgggtgatgtc tggtttggtt ctggaattac 360
 gctcaagggc aaggtgacaa tcaccgccaa gtctggagtg aagttggagg ttccagatgg 420
 agcttgattt gaaaacaagg atgtcaatgg 450

<210> 37539

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-H5

<400> 37539

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 ccgtggcggc tcaagttgtc gctcccgatg gtggcgccgg cacaagcggc ccggaggtga 120
 cgctggagga cttcctggcc agggagagcg cggtgaagga ggatgaggtt aagatttctg 180

tccccccgcg gccggtcatg gggttaccgg gcggagcggg gggcgtgagt gtgcctggcg 240
gcggaggcgg gagggaacgg aagcggcagc ttgtgagtac agaggatcgc gctcgctctg 300
ctatccagcg agagaaacga atgataaaaa accgcgagtc tgctgccagg tcacgggaga 360
ggaagcaagc ctatatcgcc gagctagaat acat 394

<210> 37540

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-E11

<400> 37540

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atatgcccac cctctacac ctctactat gcatccgttt agtcattacc ctatgccaac 120
aaatggacat gctgaaactc ctggaaccgc gccaaagtgc ccagaaatga atgggaaaag 180
tgagcctggc agaacatctg ctccatctgc caatgggatt acctcgaca gtgagagtgg 240
aagtgagagt gagagtgaag gaagtgatgc caattatgaa aatgattcac attcaaagga 300
caatgatgga aaggaagatg gcaattctca gaatagca 338

<210> 37541

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C7

<400> 37541

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taagggttaa cgaaggcatt gaagaagata tcccaccgag ccaatatgcc aggtgtgaag 120
agaaaataac tatgactcca gctgccatct caagggaagc tgggtcttcca ggatatggtc 180
ctggctcctg agaaaacttt cttcagggtc gttcaaggaa tactagctgt gagcagagtg 240
tgatactggc tcttaccgct atcgcaagag aagttgggtc accaggatat gcgactggag 300
aaaaccagcg caatgggggt ccatggaata caagttatga gcgaagacta tttatgaatc 360
ctgtgaccag ctcaagagca gtcagtcctc caggatatgg gcctgaagaa agccgaggca 420

gtggcatttc ctggaataca agc

443

<210> 37542

<211> 417

<212> DNA

<213> Zea mays

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<400> 37542

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agctgctgaa tcagctagat ggttttgact cacgtggaga tgttaaagtc attctagcaa 120
caaaccgcat tgaaagtctt gatccagcct tgcttcggcc aggccgtata gaccggaaga 180
ttgaatttcc tetaccagat attaaaacta gacgacgcat cttccagata cacacatcga 240
aaatgacatt agctgatgat gtgaacttgg aagagtttgt tatgaccaa gacgagtttt 300
cgggtgctga tattaaggca atctgcacag aggctggatt gcttgcctta agagaacgca 360
gaatgaaggt gacccatgca gatttcaaga aagcaaaaga gaaggtgatg tacaaga 417

<210> 37543

<211> 363

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G7

<400> 37543

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aagaatgggc tcggaagcgg actgcgacag gatcaggggc ccgtggagcc ccgaggagga 180
cgacgcgctg cggcggctcg tggagcggca cggcgcgcg aactggacgg cgatcgggcg 240
cgagatcccg gagcggtcgg gcaagtcgtg ccgcctgcgg tggtgcaacc agctgtcgcc 300
gcaagtggag cgccggccct tcacggcgga agaggacgcg gccatcgtcc gcgcccacgc 360
gcg 363

<210> 37544

<211> 453

<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-G4

<400> 37544

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tacttgatca gctctttgac ctcaaaaagca aggaacaaga attgctggat ctcaataaag 180
acctaaggaa gcagctgcaa gaaacaaggc cagagaacgc gtcctgtgct tcttgggagg 240
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acctggacaa cgatccttcc ctgcaggctg ggtaccatca tcaagcctac atggatcagc 360
tgaacaacga ggacctggtg gacccgaatg agcatggctg atctggatgg atatgaaatg 420
ctctgatgac caaaaataaa gttgatgcac agc 453

<210> 37545
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-F8

<400> 37545

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gaattgcaca accaaagggg gtccttcttt atggacctcc gggcacagga aagacattgt 120
tggcacgtgc ggttgctcat cacactgact gcaccttcat cagggtgtct ggttctgagt 180
tggttcagaa gtatattggt gagggctccc agatggttag ggaactcttt gttatggcca 240
gggaacatgc accatccatt atatttatgg atgaaattga ctctatcgga tctgctagaa 300
tggagtctgg aactggcaac ggtgacagtg aagttcagcg tactatgctt gaactttcta 360
accagcttga tggttttgaa acatcaaaca aaattaaggt tttgatggca acgaacagaa 420
tagacatttt ggatcaagcc ct 442

<210> 37546
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-051-Q1-K1-B3

<400> 37546

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gaagctgatg cggatggcct gtcaaagaga ctgaagcac ttgaagctta caaaaggaaa 120
cttttgggtg agaggttga agactgctcc attgaagagc tgcatagttt ggaagtcaag 180
cttgagaaga gcctgcattg catcagggga agaaagactc agctgctgga ggagcaagtc 240
cgtaagctga agcagaagga gatgagtctg cgcaagagca acgaagattt gcgtgaaaag 300
tgcaagaagc agccgcctat gacgatggct ccgccgnega ctctgtgcgcc ggagtcgac 360
accgtggagg acgatcaccg ggagccgaaa gacgacggaa tggacgtgga gacggagctg 420
tacatagga 429

<210> 37547
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H10

<400> 37547

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agaaggagct cgcggaagaa cagaaagacc agcggcagca agtgcaacgg gaccgaactc 180
aacagcagac cagttcgtct tccacgtcct tcatgttaag ggaagctgcc ccaacaacaa 240
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cgcaggctcg cgttggactg ccaccatgga tgcgtagcca tctgagctgc tgaagcttgc 360
cctcaccgtc gcgatgtgat ag 382

<210> 37548
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F11

<400> 37548

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cccgtctcct ccgtecgctc ttcttcccc cttccctctt cctctttcca accgccgctc 180

ctgctgcctt gcctctcagc ccagggacgc caaggtctct gccaggatgg tgtaggccgt 240

gcctctcgcg cattatgagg tgtggtggtg agggatgggc gatggccttt gcagatgaag 300

gagcgacagc gctggcgggc tgaggaagac gccgtcctgc gcgcctacgt ccggcagtac 360

ggcccccgcg agtggcacct ggtgtcgcag cgcataaacy tggccctcga ccgcgacgcc 420

aagtcgtgcc tggagcgctt gaagaactac 450

<210> 37549

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G8

<400> 37549

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gacgaggatg gtgtgcccac gctgctaaaa atcccgcgca tgtttgatcc atggggtgga 180

tacagcatca ttggcttttg tgatatcctt ctctctggtc ttttagttgc tttctcgcta 240

agatacgatt tttctgcaaa gaagggttta cggctctggtt actttttgtg ggcaatggtg 300

gcctatggct ctggacttct aatcacatat gttgcgctga acctgatgga tgggcatgga 360

caacctgccc ttttgtacat cgtgcccttc actcttggca ccttgatcgc gcttggatgg 420

aagagagggg agctgcagaa cctgtgggag aggggag 457

<210> 37550

<211> 325

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-020-Q1-K1-H6

<400> 37550

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 tgcagcggat cgagaacaag atcagccggc aggtgacctt cgccaagcgc cggaacggcc 180
 tgctcaagaa ggcgtacgag ctctccgtcc tctgcgacgc cgaggtcgcg ctcgctctct 240
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 agcggtagca gaggtacatc tatgc 325

<210> 37551
 <211> 297
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-031-Q1-K1-H4

<400> 37551

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 gaaggagctc gagcagctgg aggaccaaata agagatatct ctgaagcata tcagctcaag 180
 aaagaatcaa atgctacttg atcagctctn tgacctcaaa agcaaggaac aagaattgct 240
 ggatctcaat aaagacctaa ggaagcaact gcaagagaca aggccagaga acgcgct 297

<210> 37552
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-039-Q1-K1-G10

<400> 37552

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 ttcttgggtga agaactggct ccacttagcc caagtgaact tgaccagctt gagagtcaag 180
 tagacaagac cttgaagcaa ataagatcaa gaaagactca ggtgttactt gatgaacttt 240
 gcgacttaaa gagaaaggaa caaatgctgc aagacgctaa cagggttctg aaaaggaagc 300

tgcacgagtt tgaggcagag gctgcttctc cccacaatt ggcgtggcaa ggcggaggcg 360
 gcatgttgtc ccatgaccct tcacagccag aacacttctt cgtggctctg gagagcaacg 420
 cgctcttgca acctacatac catactatgg acatg 455

<210> 37553
 <211> 329
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-036-Q1-K1-H9
 <400> 37553

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 gtgcagctgc gccggatcga gaacaagatc aaccggctgg tgaccttctc caagcgcttg 180
 aacgggctgc tgaagaatgc ccacgagatc ttcgtgctct gcgacgcaga tgtcgggctc 240
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 attctcgage gttaccaacg ttactcatt 329

<210> 37554
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-026-Q1-K1-G11
 <400> 37554

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 cctgcaggcg gcgtcctctc catccacct ctcatccgtc cccaagaagt gcagcctcgc 180
 cgtcgcggcg aaggacacgg cattccttag cgtatcccag aagaaggtgc agggggcgctc 240
 gctgtcggtg agaacgcggg tggcgacgac ggcgcctgtg gccacgccgg ggtccagcac 300
 ggcggccaag gatgggaaga agaccgtgcg gcagggcgctg gtggtgatca cgggcgcgtc 360
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 gat 423

<210> 37555
 <211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-042-Q1-K1-D6

 <400> 37555

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 ctctcatccg tccccaaaga gtgcagcctc gccgtcgcgg cgaaggacac ggcatcctt 180
 agcgtatccc agaagaaggt gcaggcggcg tcgtgtcgg tgagaacgcg ggtggcgacg 240
 acggcgctg tggccacgcc ggggtccagc acggcgccca aggatgggaa gaagaccgtg 300
 cggcagggcg tgggtggtgat cacgggcgcg tcgtcggggg tgggcctggc ggcgccaag 360
 gcgctggcgg agacc 375

<210> 37556
 <211> 352
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-036-Q1-K1-A5

 <400> 37556

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 acgggcgcgt cgtcgggggt gggcctggcg gcggccaagg cgctggcgga gaccggcaag 180
 tggcacgtgg tgatggcctg ccgcgacttc ctcaaggcgg ccaaggcggc caagggcgcc 240
 ggcattggcg acggcagcta caccatcatg cacctggacc tggccttcct cgacagcgtg 300
 cggcagttcg tggacagctt ccggcgcgcc ggcattgcgc tcgactcgct cg 352

<210> 37557
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-025-Q1-K1-F6

<400> 37557

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ctctccaggt tggaagtatt ctactggga aatgaaaggt gttccattga gaattgagat 120

tggtccaaaa gatctggcaa acaaacaggt acgcattgtc cgccgggaca acggtgcaaa 180

ggttgacatt ccggtgacca atttggttga agatgttaaa gtgttattgg atgagattca 240

aaaaaatctg ttcaaacag ctcaagaaag gagagatgca tgtgttcagg tegtcaactc 300

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tgaggaggaa gtt 373

<210> 37558

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C4

<400> 37558

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ctaaagttgt agcctccatg ctgatgtttg cgacggtcgc tgggattctc atggcactct 120

tcttgaacac tgctggcggc gcctgggata atgcacagaa gtacattgag actggcgctc 180

ttggtggcaa gggcagcgag tcccacaagg ctgcggttac tggcgacacg gttggagacc 240

cattcaaaga cactgctgga ccgtcgctgc atgttcttat caagatgctc gccacaatca 300

cgctggtcac ggctccgata ttcttgtgat taaccaacca ctcatcaagc ttgctattaa 360

ccctgcggag atgtacctat gcgaccaggt agatgagggtg tgtgtgtgtg tgtgttacct 420

gcatgtgatg atgta 435

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<211> 322

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-006-Q1-K1-F4

<400> 37559

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acagggcatc tggctctgac aaggtggacc gtgttcttta ttectctgtt gtttaccac 120
ataactatgg cttcattcca ctgcacactc tgtgaggata acgacccctt ggatgtcctc 180
atactgatgc aggaacaagt tgtccctgtg tgattcctgc gagctcgtgc tattgggctc 240
atgcctatga tcgatcaggt ctagtgtctt cgtcacctga tcgcatagtg cttgctatgt 300
ttaccttagg ccatatattt tt 322

<210> 37560
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D9

<400> 37560

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agatgggccc caagttcttc gttggtggca actggaaatg caatggaacc gcagatcagg 120
ttgagaagat tgtcaaaacc ctgaatgaag gaaatgttcc ctcttcagat gttgttgagg 180
tcgttgctcag tctctcttat gtgttctctc cgggtggtaa gagccagctg cgccaagagt 240
tccaagttgc tgcttagaac tgctgggtga ataaggaggg tgcattcact ggtgaaatta 300
gtgctgaaat gctcgtcaac cttggcgctc cctgggtcat tcttggaac tctgaaagga 360
gagctctgct gggagaatca aatgagtttg ttggagacaa ggttggcttt gctctgtcta 420
agggactaaa ggtcattgca tgtgttggtg 450

<210> 37561
<211> 267
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-046-Q1-K1-C4

<400> 37561

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gaatcaaata aatttggttg agacaaagt gcgtatgcc tgtctcaggg actaaaggctc 120
attgcatgtg ttggtgagac acttgagcag aaggaggctg ggtctaccat ggaggttggt 180
gctgcacaaa caaaagcaat tgctgagaag atcaaggact ggagcaacgt agttgttgcc 240

tatgaaccag tttgggctat tggaact

267

<210> 37562
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D9

<400> 37562

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atcgaggagg aggtcgcggc ggcggcggcc gtcggtccg gcggcttcgg cttccacgag 180
caccacgaga agaagaagga ccacaaggag gccgaggagg tcggcagcta gaagaagcac 240
caattcttcg gctagctgac tgatectccc atatcgatcg tcgtgcctgc ccgcttgcta 300
cacctgcgtg tgagagtgat ctcgagcgcc ggccggcctg cacacgcgac gtgttgggcg 360
tacgtacgga cggatacatg tatgtatgta tatgcgcacg tgtgatgcac gaataagcg 419

<210> 37563
<211> 363
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-E1

<400> 37563

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agccatggcc gctgacactt cgaagccctt cttccccgcg gcgcgcgact cggctctccg 120
cccctccagg agcgcgcgct cgcgcgcggt cccctgagagc tctactggc gcgccttccg 180
ctcctcggag ctcttgctcg acgcgcgctt ccccgctacc gatctcacct tcgcctcctc 240
tgtggaagac agagctgccc ctaccctcgc cgcttccctg tccacctacg tgcacgtctt 300
cttcttcgac cccctcgaga agctccgtag gatctctgtc gcgggcgata tagccttctt 360
ccc 363

<210> 37564
<211> 180

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E11

<400> 37564

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 caaggagatc gttgccttcg ctcccctcgt cctcttcagc aaaacttctt gccctttctg 120
 cgtccgcgtg aaacacatgt tcgagaaact ctgagcaagc taaaaagcca tttagattgg 180

<210> 37565
 <211> 395
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E12

<400> 37565

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 accagtgttc ctccgcgtc gccaaagcaca tcaaggcgcc cgtccacctc gtctggtctc 180
 tagtgaggcg gtttgatcaa ccacagcttt tcaagccctt tgtgagccgg tgtgaaatga 240
 agggcaacat tgagattggc agtgtcaggg aggttaatgt aaagtctggg ctgccagcca 300
 caagaagcac ggagaggctg gaactgttag atgacaatga gcacatactc agcgtcagat 360
 ttgttgaag tgatcacagg ctgcagaact actca 395

<210> 37566
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E2

<400> 37566

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 ctgcccctcc tcgcgtccc caccaacccc gacgagcggc gatgaccggc acggtgtcca 120
 agctggcggc gccccggcct gcggcgccac cgctccggcc ggcgtccctc cgcgccgcg 180
 caatcgctt cgcctccctc ccgcgccggg tccgcgtctc cgtcgccggg cgggccagga 240

tccccctccgt cattgcgatg gcttctgcca aggaaggaaa tgggtgcaccg accaagaaaa 300
 cctcgcttca cgatctctac gagctccagg gcctctcccc gtggtatgac aacctctgcc 360
 gacctgtcac cgacttgctt gcccttatcg gcagcgggtgt tcgtggagtc accagcaacc 420
 ctacaattt 429

<210> 37567
 <211> 448
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-033-Q1-K1-E3

<400> 37567

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 aaggtgtcag caccatcgt ggtcaactct atcttcgtct ccccatgcgt gctcgccaga 120
 tccccctctg tctccagtc accaccgtgg tcgggcccgc tcgcctcttc cgtcgacctc 180
 atccgctggc tcccttcttc ctgcgcgctc ccgtcatcag ccacggcccc acctccggcc 240
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 cgctcccgtt cgtgagcgag agggcaactt atgtgttatt tcaggcagtg taaatttgtc 360
 agttccgatg tgggaaaaga atttttcaac ggatgctngt gctatccctt gggctaaact 420
 gtgtgagacc aaaggattga tgtctctg 448

<210> 37568
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E4

<400> 37568

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 gatggcgacc gacgtgactg agactcccgc gccgttggtg gatgcggccc cagaggcgcc 120
 cgccgacgcc ccggcggcgc ctgctgccga cgcaagccg gccaaaggcca agaaggccac 180
 cgcgccgaag aagcgcgcca gcccgaccca cccgccgtac gccgagatgg tctcggaggc 240

gatcacgtcg ctcaaggaga ggacggggtc cagcagctac gcgattgcc a gtttcgtgga 300
 ggacaagcac aaggccaagc tcccgcccaa cttccgcaag cttctgaacg ttcagctcaa 360
 gaagctcgtc gccggcggca agctgaccaa ggtgaagaac tcgtacaagc tgtcg 415

<210> 37569

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E5

<400> 37569

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 tccgggaagc cgtccacta caagggtcc accttcacc gcgtcatccc cgagttcatg 180
 tgccagggct ggcacttcac ccgcggaac ggcaccggcg gcgagtcac ctacggcgag 240
 aagttccccg acgagaagtt cgtgcgcaag cacaccggcc ccggtgtgct ctccatggcc 300
 aacgccgggc ccaacaccaa cgggtcccag ttcttcacat gcaccgtcgc gacccttgg 360
 ctgcacggca agcacgtcgt cttcgccag gtcgtcgaag gcatggacg 409

<210> 37570

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E6

<400> 37570

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 cccgtcctat gccgcctcgc tttgatgtgt gtcgtcatct ttaatcccag taactcttcc 120
 gatacgctc ttgtcatgtt tcacctcgtg gtcagcccca tctgggtcat gggggcggaa 180
 gatctcaaca ctgcttcata tggctgtttt agatgttgtt tgccgggtag agaaagtat 240
 tgtgataaat gattttcgc ctctcatcac attcgcaatc ctcgtcaatc atcgctggtt 300
 tgagagaaat taccataaga tatggagaag aaagtgaagc cgcaccacac cgtcaggtgt 360
 tcaacgacat gctcgagcca ggatttatca gcattcttgt gagtagtgag tcatgtttga 420

tgctgggtag ttgaatttat ttttctta

448

<210> 37571

<211> 344

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-033-Q1-K1-E7

<400> 37571

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ttgaactcgc tgatcagctt caaaagctaa aaattgagcc agtactacta cactacctct 120

cccgcgatgag catacttcaa gggttggaac tgaggttgag tacaagcacc agactaaagg 180

cctgcctcta cagcttcaact tctcctggtg gccctaccta cccaacacgg gctgttcgan 240

gnncannnnn ntnnagcnng anagcnccan cnncagatgc agatgcagca attgcaactt 300

atgcatcaga gacatgctca actttaacga actaacgcga atca 344

<210> 37572

<211> 122

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E8

<400> 37572

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ggcgacccac atgactgata cttctgctcc gtttgtggat gcttaatcac aggagctctt 120

ct 122

<210> 37573

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-E9

<400> 37573

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tcttgtgaac gagactaagc ttgacagcga gattaagtct tggcttgctt ttgctgcccc 120

gaaggttggt gaggttgatg ctcttgctaa ggcattggct ggtcaaaagg atgaggctta 180
 cttcgcagca aatgctgctg ctcaggcctc gaggaatcc tcaccccgctg tgaccaatga 240
 agaagtccag aaggctgctg ctgctctcaa gggctctgac caccgccgtg ggaccaacgt 300
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 aatc 364

<210> 37574
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F1

<400> 37574

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 ctgctgatcc agttgcaatt gatgctcctg gagggtttct ctttgagtgg tggctctgtct 180
 tttgggatat attcatcgca aggacaaatg aaaagcattc tgaagttgca gcggcatatc 240
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 aacttatgca tcaaagacat gctcaacttc agcgaactaa cgcgatcat ccttcactta 360
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<210> 37575
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-033-Q1-K1-F10

<400> 37575

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ccgagcgagc gggtcgaggt acggcggaac cgctacaagg tggcggttga cgcgaggag 240
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 ctntcaaga ggcgcctga ggggctccag gccaggtcc ctgcccctcc ctccgngtt 360
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 cttcagcttg aggccaccac acag 444

<210> 37576
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F3

<400> 37576

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 ct 422

<210> 37577
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-F4

<400> 37577

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 cggcaggaga tcgacttctt tggtaggtg tccgggatca cgctgagccc ggacgacgag 180
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cgcggtattcg actatcttga ctcatatctg tgaagaactg agcttttggtg accggtggtg 300
 tgctaggtgc tggctgaagg ttctgatgcg cggttcaggg aatatatctg cctgctctta 360
 gttcatggcg aatgatgggt cgggtgggact cgacgccagc gaatctgccg tgtaaatagt 420
 ttagaatttg aagcgtaat 439

<210> 37578
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D8

<400> 37578

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 ctgatactta cacaagatat gcgagatgat atggtttaaa ttttgaacgg aagttgcgga 180
 tccttttatt ttttaaaatc tcggtgcaat gtttatcaaa aaaaaaaaaa agaaaataca 240
 tgtacgagtg cactttcaaa agaaataaa 269

<210> 37579
 <211> 457
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C4

<400> 37579

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 tgtcagcgct ggaattcgga gcgtagtgga tgatgaagct gggaaatcaa atggtggtct 180
 caagagtgat ccaatgtgca atgcttgtga gatggctgtg gtatggatgc agaaccaact 240
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 tccgagtcgg atgggagaat cagccgtgga ctgtggcagt cttgcgtcca tgctgacat 360
 tgcgttcacc attggaggca agaagttcaa gctgaaacca gagcagtaca ttctgaaggt 420
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<210> 37580
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-033-Q1-K1-C5

 <400> 37580

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 catcgccaag atgtaccagg ggcggggtgc cgacatgggt ggcgcggcg gcatggacga 180
 ggacgctccg gctggaagcg gtggccctgg cccaagatc gaggaggtgg actaagcgga 240
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 cgtcgtcgtc gcggtgtatc cgcgttagaa cttttgttg gtgaacaata ttatcgtagc 360
 acgcgtttta agtaatacgg tattctggtt cggtttaaaa aaaaaaaaaa aaaaaaaaaa 420
 tttaaaaaat aatttaatat t 441

<210> 37581
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-033-Q1-K1-C6

 <400> 37581

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 ccgtcgagaa gaggcccttt cggtgccgtg atcctatccg cgccgcgacc cggggctagg 180
 gttcgcgcgg cgcggcctcg cgaggggaat gttcataacc attgcctgtt gacatcgtct 240
 agtctgaatt caagttcttt gctatgccct ccatgcaatt gtgctcaaatt ggctttggcc 300
 gacacaagaa ttgcttacca gcctgaagtt gacaagcatg ctggagttct ggcctatgaa 360
 ctggttcaag ggaatcttgt tcagtggaaat tcatttatgg acaaatcaat acctgatcca 420
 ccaacagctg ttctttctca tggcatcctt ggg 453

<210> 37582
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C7

<400> 37582

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catctaagtt tggagttgat gaaactaaga tgatggagag gctatggggg gagaacttct 120
ttgaccctgc cacaaagaag tggaccacca agaacacagg ttctcctacc tgcaagagag 180
gatttgttca gttctgctat gagccaatca agcaaatcat caagacctgc atgaatgacc 240
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aggagttgat tggcaaagct ttgatgaagc gtgttatgca aacgtggcct ccagctagca 360
ctgctctgct tgagatgatg atattccacc ttccttcccc agcaaaggct caaaagtatc 420
gtgtggagaa cttgtacgag ggacccttg atgatg 456

<210> 37583
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C8

<400> 37583

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ggaaagaaaa acgaatttga agtcacctag attccgtaca cttgcatacg aggtcatggc 120
ttttgtgttg ggaaacctga acgcaattga ataggccgct tgtttacaac aaccgggggtg 180
tcaaaagtta tactgtgcgc aatgcatgtt ccatggctga catatggatt cacaacgaag 240
tcgcccatac caaagcgccc tgagcccaat ctccattgcc ttcattagct ctgcccgcac 300
ggtgcatggc ccatggccga ttccggcgct ttctgc 336

<210> 37584
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C9

<400> 37584

cccacgcgtc cgctcaatga cccatcgata agagagatgg ctgagcaa at tgcaagtgc 60

cctgtgttca accagatggc tgaacagctt cagaaaagtg ctcaggggtgc tggagaacag 120

ggtattcctg cattggatcc tcaacagtat atggaaacaa tgcaacaagt catgcaaaac 180

cctcagtttg tgtcaatggc agagcgtctt gggaatgccc ttatgcagga tcttgctatg 240

tccagtatgc ttgagaactt gaccagtcca gtcataagg agcagcttga ggagaggatg 300

gcccgtatca aggaagatcc atccttgaag ccaattcttg atgagataga gaatgggggt 360

ccatctgcaa tgggtgaagta ttggaatgac cctgagggtc ttcaaaagat tggccaggca 420

atgggtgtta acc 433

<210> 37585

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D1

<400> 37585

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cgggtttctc ggtcggacta gattgtttcc atcgagatgg tgccatggtg ggcggcggag 120

ggcattcgtc gatggaccac cctggcgcca aggacgatgg agacggggaa gaaagccagt 180

acttctcgga cgcggaggac cggtcgtggc cgtcgcactc gcgccacgac tccaccgcct 240

acgaggacta cgtctcgctg tgcgtgtccg cccgcgcgag ctccgtcgac gccgacgccg 300

atgccgacgg cgaggccgtc agacaacact gcaggaagtc gtcgtgctg tcagagggct 360

cgctggacga cgttgacctg gaggccggac tgagcgagat catcaaggcc agccctgaga 420

aggccgaaca gaactgtcgc at 442

<210> 37586

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D10

<400> 37586

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 gaatcacgat gggtccagga atgccecca agacggcggc gcgaccggtg gcctgggcac 180
 ctcagcctcg gaacatgttc gtgttcggcg caggtttcgt cggccgctac gtttcggagc 240
 gcctcctcgc gcaaggctgg caggctctccg ggacgtgcac cactgtcacc acgaagaggg 300
 agctagagat gctgggcatg aatgcttccg ttttcgatgg cacagaagac agcctggaaa 360
 atattcacag tttacgacaa gcaac 385

<210> 37587

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D11

<400> 37587

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 gctcacctct cggggcgtgcc tagctcgtca tcggtctcca atgccacgtt cgtgctacta 120
 ctccaatcgt tgetgaccgg tgtgatctcc actgacttcc gcaaggagtg cgggcacctt 180
 cgggtcccatc cgatgttaag gcttacctcg cttatggtgt tccacagagt gacatgaaac 240
 tgtaatcact tatgcaaaag ttgctagacc agcggcagag catgaacata tggcgctttg 300
 tacatacaat gaatactgtt gggaccatgc ttcgtcgccg aaggctcctgc aaaaagaaac 360
 agcttcggct gaaggtgctt gaacatgctg ccgaagacac agttcacgaa gcttcggaac 420
 tacaacatat ccaaagacg 439

<210> 37588

<211> 272

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D12

<400> 37588

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 gtctggcatc atccacatga tcgaggagaa gctccacatg gggggcgacc acaagaagga 120

ggatgagcac cacaagaagg ccgaggagca ccacaagaag gaggaggggg agcaccacaa 180
gaaggacggc ggggagcata aggaaggcat cgtggagaag atcaaggaca agatcaccgg 240
cgagcacggc gacaagtccg gcgaccacaa gg 272

<210> 37589
<211> 426
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-033-Q1-K1-D3
<400> 37589

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tcgggtggact cgctgaaccc gttcatgcac gcccggtggg tcgccttcat ggtggacaac 120
tgctccacaa cggtctgcct gggatccagg aagtggggcg ctcgcttoga ctacatcctg 180
acgcagcagg cctttgtggc ggtggacaag gacgccccga tcaaccagga cctcatcagc 240
aacttcttgt cggaccctgt ccatggtgcc attgaagtct gcgccgagct gaagcccacc 300
gtcgacatct ctgtgcctgc caacgccgac tttgtgcgcc cggagctccg gcagtcttcc 360
tagattgaag caatgagcgg agagggagag ggagagagaa agagaggatt tcgtgtcccc 420
agttag 426

<210> 37590
<211> 330
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-033-Q1-K1-D4
<400> 37590

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gtagctgggt cgtgcgtggt gtggtggtaa gaaattcttc tgctgcctgt gttctttag 120
cctcctcgtc ctgcccacc ctgttggtac gtgtacggtg tacgtagtct gccgccgcgc 180
gctgttcgtg ttgcgtcgtg ctcgtgtctg tattatactc gtctctccca tcaaaaaaaaa 240
agttgttcca tgtacgtgtg cactgtcgag tgatgtttgg ctggacgtga tcgtgattac 300
tcctggaaac tatccggcgc gtgcagatcg 330

<210> 37591
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D5

<400> 37591

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gccacggccc cgacgtctcc cgtcccggyg cgtcaccccg tggcgcggyg gcccccgcc 120
tcaacggctc ggaggcgga ctccctgcga cgcgggcct cttggcccca gggctcggg 180
cgtgggtgcc cacggcgcyg gggccccgg cccctgcggc acggcgcyga ctgcctgcga 240
cgcgggccc cccctgcccc ggcggtcgy gcgagggccc ccgacgcga ctggtgaggc 300
gcggcagcct gcggcgcttg ggactgtgg ccggccaggc gggccacagc cagcggggc 360
gcgcagcccc gcggccttag agccggcccc gcttatacac ggg 403

<210> 37592
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D6

<400> 37592

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caaccttgcc gtgaccgaa tggccccaga tggaaacttg gcagcaactt ccagcttgcc 120
tgaaaggctg atagtgcata tacgc 145

<210> 37593
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-D7

<400> 37593

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gaccaagac cattcatgtt cctactgggg agaagctttc tgtttttgat gcggccatga 120

gatacaaadc tgagggccat gctactataa tcctcgctgg tgctgagtat ggaagcggca 180
gttctcgtga ttgggtcgtt aagggtccga tgctcctggg agttaagct gtaattgccca 240
agagctttga gcgtatccac agaagcaact tgggtgggat gggaatcatt cctctgtgct 300
tcaaagctgg tgaggatgct gattcgcttg gcctcactgg acatgagcgg tacagcatcg 360
atctccctac caacctcagt gagatccgtc ccggccagga tgtgactgtt actaccgaca 420
atgggaaadc tttcac 436

<210> 37594
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C3

<400> 37594

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atgagggagc ctcagatgtg tcaagtagtc tgcaagatat ctggtgggga gaaagaagca 120
aagctttctca aggagaagat tgaagatgaa taccgtgtta acatgattct tgacaacctc 180
ccttttagtcg ttcctattca aagagtggat caagaagggt catatttcta tcaacatgga 240
ttccatgttg gggccaaagg aaaatattca gggagcaaag atgaaaaata cttcatccac 300
aaccatctat cttttacggt gaaatatcac agggatgagc aaagggatgt ttccaggatt 360
gtggcctttg aagtgaacc atacagcgtt aagcatgaat atgaagggca atggaatgat 420
aagaagaccg ggctgacaac gtgtgaccct catgc 455

<210> 37595
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-B1

<400> 37595

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gtcgccccct cgcttctcca agttcttcca ggctaacctg cggtatcctg tcaactggtg 120

ggcgggcttc atcggtctgc acctcgtgga caggctcatg gagaacgaga agcacgaggt 180
cattgttgct gataactttt tcaccgggtc aaaagataac ctgaagaagt ggatcggaca 240
cccaagattt gagctcatcc gccatgatgt cactgagcca cttcttgtgg aggttgacca 300
gatctatcac cttgcttgcc ctgcttcacc aatcttctac aagcacaatc ctgttaagac 360
catcaagaca aatgttattg gtaccctgaa catgctggga cttgcaaaga gagttggagc 420
taggatttnt gtgacatcaa catctg 446

<210> 37596
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-B10

<400> 37596
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cccacgcgtc cgcccacgcg tccgcgagcg cgtgggatcg tcttctctcc ctcacatcct 120
ctggcctctg gtctctcacc gtctgtctag ccagagctgc tcttgtacgc gcagctggcc 180
tctgtgcata tcaccagcac accgcgcagg ggaaggaaat taacaagaga aaaggcaagg 240
agagcaggca ggcaaggag ctgcagaagc caaggaagga gaaggaggat catcaatgag 300
catctcggtg aacgggcagt cgtgcgtgcc gccgggggtc cgttctcacc ccacggagga 360
ggagctgctc aactactacc tncgcaagaa ggtggcctcc caggagatcg acctcgacgt 420
catccgcgac gtcgacctca acaagctcga gc 452

<210> 37597
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-033-Q1-K1-B11

<400> 37597
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gtctcttatt agctctaggg tctagctagc cgcgccactc cttcgtgtag ccatcagcct 120

tctcatcgcc accaatggcc actgccgagg tccagacccc gaccgtcgtg gcggccgagg 180
aagcgcccggt ggtggagacc ccgccgccgg ccgtcgtgcc cgaggagtct gccccgccg 240
aggccgaggc cgaggccgag gctgctgctc ctgctgatcc cgaggagctt cccgcggccg 300
agcagcaggc agccgccgag gcggaggccg cggctcctgc tggcgccgag gagcccgctg 360
cggccgaacc ggccgncgag gcggaggctg ctgctcctgc tggccccgag gagactcctg 420
cggtcgagc 429

<210> 37598
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-B12

<400> 37598
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gggatataaa aaaactcaaa attaaaaaaaa aaaaaataca aaaaataaaa atataaataa 120
aaataacaaa aaaaaagggtt taccgtttta cagtttccaa gtttacgact ggaaaaaccc 180
aggtgttacc tattttattg ggcacccaaa aaaaaatcct tttgccagtt ttttaaaaaa 240
ctcaaaaggg caaacctttt ggcttttcca aataattcgc tattctgaat attcattttt 300
accccccttt taaagtacca taaaagcccc aagcaatggc ttttccaa 348

<210> 37599
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-B2

<400> 37599
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cacggctgct accagaaagg gcaggttcga tcgggtctagt gtgaactcgg ctttgaataa 120
ctagtctgtg gacaagggtc agttcgggtga tgtgtatgga acggtcgtca ctgagtcatg 180
cacgatttgg tatccacgtg attatggctg acggtttgag gaactctctg atccatcatg 240
acacaaagtt gatgctgcgc gaacgaccgg atatcattct 280

<210> 37600
 <211> 462
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-033-Q1-K1-B3

 <400> 37600

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 ttattaacta caaagaatct cagtgcattc ggagcccaa ctgctgtagt caagaggagg 180
 aggatactga aattgacatc actgatgaaa gtctggacac ttttgaggca aacaacgaag 240
 ccttcggctt caccgtgaag gaagctgttc tctttcccc agaagtagag aagggcattgt 300
 ggccagaaaa ctacagcctc tcagatcatg ctccctcac tgttggtattc tcccctatta 360
 gaatgccttg ctctccacgc aatcgtgggg agctctagct atctaattgc aatgatctca 420
 tgtatacata tacatgcccc acgaaatcgg tgtagattt gg 462

<210> 37601
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-033-Q1-K1-B5

 <400> 37601

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 cggacattgt tgatgaagcc ataactttct ttcgagccaa tgttttcttc aaaaatttcc 180
 atgtgaaaag ctacgcagac aagttattga tctatctgac gttttatata aatattgcct 240
 taaaaagact agacggttgc cggacactag ctgttgggac taaagcaatc attaattctgg 300
 gattggagaa agttcctgta cctggggaac cagggtttcc tttccctgga cttttcactc 360
 ttccccagtc ccaggaggaa gcagaattgt tgaggaatta tttgaagcag ataacggagg 420
 aaacaagtgg aagattgctc aactgtgcat acag 454

<210> 37602

<211> 455
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-033-Q1-K1-B7

 <400> 37602

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 ggcgcgaggc aagatgtcgt ggcaggcgta cgtcgacgag cacctgatgt gcgagatcga 120
 aggacagcat ctcagcgccg ccgccatcgt cggtcacgac ggcagcgttt gggcgagtc 180
 cgagagcttc cccgagttaa agcctgagga ggttgctggt atcataaagg actttgatga 240
 acctggtact cttgcaccaa ctggtctttt cgttgagggt acaaagtaca tggatgatcca 300
 aggtgaacct ggagttgtca tccgaggaaa gaagggcact gggggcatta ctatcaagaa 360
 aaccggcatg tccttgatta ttggtgtcta cgacgagcca atgactccag ggcaatgcaa 420
 catggtggtg gaaaggctcg gcgattacct gatcg 455

<210> 37603
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-033-Q1-K1-B8

 <400> 37603

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 atcgcccgcg cgcgccacga gaacctggtc ccgcttaggg ccttctacca ggggagggcg 180
 ggcgagaagc tgctggtgta cgactacttc ccgcgcagcc ggacgctgca ggagctgctg 240
 cacggtggca gcgagccgcg ggcggggcg cggcgctca cctggggcg gcggcacaag 300
 atcgcgctgg gcgcggcgcg cgcgctggcg tatctgcacg cgggccaggg cgaggcgcac 360
 gggaacgtgc gctcgtccat cgtggtggtg gacgacctct tcgtgcccg cctggcagag 420
 tacgcggtgg accggctgct ggtgcccgcg gcgg 454

<210> 37604
 <211> 395
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-B9

<400> 37604

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tgagatgaag gatgaggaca ctgacccat gagcgataaa gatgggaact gacatgtctg 180

caaagattgc tcttaattgt caaccgctgc agtattgctg ccttgccggc attagtgtct 240

gtgcaagcca ttgctcgctt gcctgttcag agtgcctct gtgctcgaca agaatagcag 300

acaggataat cacattgaca tgaacggtgt gctagcttca agctattctg aagcatggcg 360

cactcttgta aaatggtcag cggatatatg tacta 395

<210> 37605

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C1

<400> 37605

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cacgtgtcaa gagacgagac ggtcgacatg gctcgacgc aatctggcgt agcggtcgcc 120

gtgggtggccg cgggtgctgt gctggcagct ggggcgacaa ccgttgatgc ctgcatcacc 180

tgccggcagg cgagctgcga catcgccccc tgctctgct acaccgctg aacggagtcc 240

ggccgcttcg ggtactgctg tagcggcgtc aggaacctct agagcgccgc cagctccgac 300

accgacaggc gcgccgctg caac 324

<210> 37606

<211> 342

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-033-Q1-K1-C10

<400> 37606

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catcagtgtg gagtgtcggg aggtgtctgt ctctcttggg ggctgggtgc aacgggtcatg 120
gcgacgtcgt ctcgctgggt gcccttgctg ctgctgtgcc tgggcgtgct ggtgtcctgc 180
tccttcgcgg cgggcagctt ggaccaggag ctggacatca cgtggggcga cgggcggggc 240
aaggtccttg acaacggggc gctgctgacg ctgctcgtgg accgcacgtn cggcttcggg 300
ttccagtccc ggcaagagta cctgttcggc aagatcgaca tg 342

<210> 37607
<211> 249
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C11

<400> 37607
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atttcagcca gtccagctgg aacaacagcc agagcagagg tcttgatgcc tctgggtcaa 120
ggccattgta atcctcctcc tcgttgctgt cgtaaatttc gtagatctaa ctagctaggg 180
tgtttcgtga tgattttttt acctcgtgta attctttctg agtggatcaa tagtgattgt 240
tctttcgcc 249

<210> 37608
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C12

<400> 37608
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aggccctatt tgattactgg ttctgatgac tccactgcaa aggtctggga ttaccagacg 180
aaaagctgtg ttcagacact tgaaggcat acacataaca tttctgctgt ttgtttccat 240
cctgagctcc ctataatcat tactggatcc gaagatggta cagtctgtat atggcattca 300
acaacttaca gacttgagaa cacactaaac tatggccttg agagagtctg ggctgttgga 360
tacatgaagg gatcaagaaa gatggtgatt gggtatgacg agggggccat tatgataaaa 420

atgggccgtg aagtacctat agcaagt

447

<210> 37609

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-C2

<400> 37609

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agctgcttgc cgtcgacacc cgcagccgca atggccgtcg cccacgcgcc gacgagccag 120
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gcgggcagga gctagaagct gtacacggcc atgttgagct tcagagactc gctctgcgac 240
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<211> 453

<212> DNA

<213> Zea mays

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<400> 37610

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<210> 37611

<211> 422

<212> DNA
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 <223> unsure at all n locations
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 <400> 37611

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 aacaagctga tcctctacgg gctctacaag caagccacgg ttggagatgt gaataccgat 180
 cgtgcgggca tattctacca aatggacagg gccaaagtggg atgcctggaa ggctgttgaa 240
 ggcaaatcgt acgatgaggc gatgaatgac tacatcacca aggtgaagca gctccaggag 300
 gagggctgccg nctcttaaaa ggatcttaat agcgttgccg aacagctatt tgtcagatga 360
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<210> 37612
 <211> 169
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 <223> Clone ID: LIB3069-032-Q1-K1-H11
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<210> 37613
 <211> 313
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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gacatgacca acttctacag ccagtacaag agcgtcgagc catgggtcaa gcgcaaggac 180
cagccccgc agcaaggcaa ggagatcccg cagaccaagg ccgaccgggc caagctcgac 240
ngcatgtacg agtgcatacct ctgcgcctgc tgctccacct nctgcccgtc ctactggtgg 300
aaccgccgag gag 313

<210> 37614
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-H2

<400> 37614

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ggcaagctgt ggctgaccac cgggtgcact cgggcccggca agctgtacta caacgttgag 360
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<210> 37615
<211> 232
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-H5

<400> 37615

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acacattgta caaggatacc cagtacaaga aaggtgagga tagcctttca gctcaaggga 180
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<210> 37616
<211> 105

<212> DNA
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-032-Q1-K1-H7
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 cagtgcgtc gcgatgggag attgggtggc gcacccgcag gcgcacacgg cgctggacga 180
 catcctcccg tgcgtggacg tggccactgc gaacgagtcg ctgtaccgga gccaggacgt 240
 gacgtctcag ctggcggcgc tggtagaaca cgtcgtcgtc aacatctcta accggaactt 300
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<210> 37618
 <211> 453
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 cgaactggat ccttgcttac ccgaggaatt aaatcgagcg actagaatct aggtccaaaa 180
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atcgctcgact agtcggacga ccagggcgac caggtactct agtcaagtcg gctgcctaata 300
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 tgaaaacaca gtttagctct taaagaggag ctaaacttta gtctgtttct ttagctcttg 420
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<210> 37619

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-H9

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 ttcttctaac ctaaagacat cagctttacc acttaagcga accccttacc agatgactta 180
 acagaggaag agaagttgga gccctaaaa aatgtaaattg atgacccatg gattcggcta 240
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<210> 37620

<211> 463

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-033-Q1-K1-A1

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 cgcagccacc gctcctctcc tctcgtcgtc tcttcctgtc ctcggcgtcg aatctcatcc 120
 ggccagtgc cactcttac tagccgcccg gaaggagttc ttccgggatt cgagccttgc 180
 tgccctcacc tctgcaggcc cagcgtcgag cggagatcca atcggaaatt caactgactt 240
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 ttacatccat ggtgatgtgg atggccctg ttgcgatcat gtatgggttt tactaccagg 360
 tgtttcagg tgtgagtcag atgtatcct cggcgcagac acttgccagt gggttcctgg 420

ctgtcatatc ggттаатста gtgatcggct nttacatatt cat

463

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<223> Clone ID: LIB3069-033-Q1-K1-A10

<400> 37621

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tgagactctg acacggatgt tggcaagacc accagcaccg ccttttggtga ctgctcaaac 180
tcctgaagtc ggcattctta ttacagctcg caacgtctcg ggtgcactgg tcgccaagct 240
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tgggaaaagg ggctgtcgtc gggagtggcg ggcgctctca gcagctgacc aagcgcaagc 360
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cgaagacgcc gagaagatgc t 441

<210> 37622

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-033-Q1-K1-A11

<400> 37622

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cggcggagcg tacagtttct tctgtgacct tgacgctctg ggagagaacc tgtacacgat 180
tataaagttc ggccttggtc aatacatgat tctcaagaca ctatgcgctc tcttggcggt 240
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t 421

<210> 37623
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 <223> Clone ID: LIB3069-033-Q1-K1-A12

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 tgccaagata tgcaaatatg gttgtagatg ttctgggtttt cttttggatc atttgtgttt 180
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<210> 37624
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-033-Q1-K1-A3

 <400> 37624

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 caattttctca tctctccaca acgcatgcta tttcgttctt tgacataggg gaaagacaga 180
 aactatccat gccactgttg tttttgtcag tcacaacaac agtaagttag ctgtcctcca 240
 agcgtgatga tgaaccagat aacaatacag aacattctga aacaaatgaa ttggcatcaa 300
 cttctggcac aagtgatgct gctgatggca caaaggaaat cgtacaagag aactggcttg 360
 tgttactttt cagggagctt gagaagcaag gcatcacttt acccgagagg ttactgaag 420
 atgaattacg cagattttat gttgctgc 448

<210> 37625
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-033-Q1-K1-A4

 <400> 37625

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ggtatatctg ggccacttcc cacggccttg ggcgccttct ccaacttgag ttacctcgcc 180
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atgctcagca aggcggctgt catcgacgcc ggcatgaatc agctcacgg cccaatccct 360
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<210> 37626
<211> 440
<212> DNA
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<223> unsure at all n locations
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accataaaaa gtctgtccga gctatggcgc ttcattccaaa ggagaaagca tttgcatcag 180
catcagcaga caacgtaaag aagttaacc ttcccaaagg cgaatttctg cacaacatgc 240
tgtcgcagca gaaaacaata atcaattcaa tggctgtaaa tgaggatggg gttttggcaa 300
ctggagggga taatggaagc ctgtggttnt gggactggaa gagtggatcat aactttcaac 360
aagatcagac tatagtccag cctggatcac tggaaagtga ggcatgcata tatgcctctt 420
catatgacgt gaagcgatca 440

<210> 37627
<211> 59
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-033-Q1-K1-A6
<400> 37627

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<210> 37628
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-H1

<400> 37628

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 gactggccat tgaaggataa gctcaattct acaacagact atgacatttg taggcctatt 360
 aatgatgatg aacgatcaga cgacgaatca gtgcctaaca tcagttatac cagtcgtgta 420
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<210> 37629
 <211> 134
 <212> DNA
 <213> Zea mays

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<400> 37629

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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F5

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<210> 37631
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 <212> DNA
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<223> Clone ID: LIB3069-032-Q1-K1-F6

<400> 37631

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<210> 37632
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F7

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gaagtaaccg cattgagatc aaggtttcgg gttggtgcac 400

<210> 37633
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F8

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tcagttcaga caataccaca tggaagggaa attgatgcgg ttggagaacg gagaagtttt 360
ggaagtaacc gcattgag 378

<210> 37634
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F9

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tagcttgcac atatggtaat cttaaattgtc tactgagacc gttctcctga ccaacctagc 240
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<210> 37635
<211> 452

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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<400> 37635

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 <213> Zea mays
 <223> Clone ID: LIB3069-032-Q1-K1-G10

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aaacttgtgt cattcttttg tagttaatcg actagcgaac tatatgctat attcgttcct 240
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<210> 37637
 <211> 416
 <212> DNA
 <213> Zea mays
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<400> 37637

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<210> 37638

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G12

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<210> 37639

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G2

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ccaaactgag cttactcgcc ctggccaaca acaggctaac aggcccaatc ccgtcatcag 240

tagcgcaact gaaagactcc cttctcgagg ttctcctact gaacaaccag ctctccggct 300
gtctcgcccc cgagctcggc atgctcgcca aggcggcggt cattgacgcc ggcattgaacc 360
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<210> 37640

<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G3

<400> 37640

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tgattatact gtccctgttc atcggacttt attacgcttc attaagttag gctgattact 180
gcttaacggg cgaaaaaagc cctgaccaac acaagctaac aggcccaatc ccgacatcag 240
tagcacaact ggggcact 258

<210> 37641

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G4

<400> 37641

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tcctctcgcg gcagcacctt gccgcgctcc gtcgatctgc accctttgcg tgcgtgtcca 180
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tagtcgatcc cctgaacggg gataaattca tcaaagttgc tgaggttcag ggaacagaaa 360
taaagccatt cgtggagagt ttatctaaat gcccaaagca tggacttcac aaccactta 420
aagctccaga gaggtacctc atgtatggag atatata 457

<210> 37642

<211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-032-Q1-K1-G5

 <400> 37642

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 cgaccgtagg cacctacacc tattggctcg tgacctcggg tacgggctgg acctaatacag 180
 caaggtgcac gggcttgata aagccgccga gtacttcggg atggtacca agcagctgac 240
 gaagccgcag tgctacggct acctactgaa atgctatgtg gaggcgaaag ccgttgacaa 300
 gg 302

<210> 37643
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-032-Q1-K1-G6

 <400> 37643

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 tgatgtcgtg gaacgtgact aggtgcgcaa cggcgctgga ggaggctggc tccgactacg 180
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 acccgtttgg tcaggttcca gctctgcaag atggtgactt gtacctcttc gaatacacgag 300
 caatctgcaa gtacgtgct cgcaaaaaca agccagagct gttgaaggaa ggaaacctcg 360
 aggaggcagc aatggtggat gtttggatcg aggtggaggc taaccagtac accgctgcac 420
 tg 422

<210> 37644
 <211> 361
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-032-Q1-K1-G7

<400> 37644

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gagaggagag gagagggttg gtctgggaca ccatggctcc gatgaagctg ttcggggcgg 120

tgatgtcgtg gaacgtgact aggtgcgcat cggcgtgga ggaggctggc tccgactacg 180

agatcgtgcc catcaacttc gccaccgtcg atcacaagag ccccgagcac ctagttcgca 240

accggtttgg tcaggttcca gctctgcagg atggtgactt gtacctcttc gaatcacgag 300

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a 361

<210> 37645

<211> 313

<212> DNA

<213> Zea mays

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<400> 37645

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atgtcatgct actgcatcat ccataacttg cagacctact tcgagagcag cctcaagacc 180

atggttctta ctgtgcatac caccacggcc agcaccaccg gtttcgaggc tggcaccgac 240

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atctgcaact gat 313

<210> 37646

<211> 269

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-G9

<400> 37646

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ccgacgccga cgccctagct cacgtcttcg tcggtccctt cccagtcttc gtcgggtact 120

tcgacgacta cgagaacaaa cgaggaattc aaggatacac tcgctggact gaagaataga 180

gaaacatgtc tgatggaggt gcgaaagatt tttaccgggc gaaaaagaaa ggaggcctgg 240
 agaaaacagg ttgatactga cagaacaag 269

<210> 37647
 <211> 350
 <212> DNA
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 <223> Clone ID: LIB3069-032-Q1-K1-F4
 <400> 37647

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 agtggaagga ccggcattcc cgtgacttcg ctgaaagtcg gtgatgaagt tctggtgagg 180
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 aaatggaaac gctgaatgca ccagtttcac gtcgctttga acaaaataat gatgtatgat 300
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<210> 37648
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 <213> Zea mays
 <223> Clone ID: LIB3069-032-Q1-K1-D8
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 tgcttcgtcg gcggcctcgc ctggggccacg gacgaccact ccctccacaa cgccttcagc 180
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 ggcttcggct tcgtcacctt ctccacggag gaggcgatgc ggaacgccat cgaaggcatg 300
 aacggcaagg agctggacgg tcgcaacatc accgtcaacg aggccagtc ccgcggcggc 360
 cgt 363

<210> 37649
 <211> 370
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-032-Q1-K1-D9

<400> 37649

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cctagctgaa caacatgctg actaccttgg ggctcaaata acgcacaggg tagcaccact 180

gcacgtgctt tggcaagctg ccaattcata tactccaaca ctttttgaga tgttcagaat 240

ggaatatgaa cagatctcaa agtgtgtggt ctatagttgt ggtgagattg gaccaatata 300

tgagtaccag gtcactgtca aagacaggcc tcanggtcaa tttgttagat ttgactcaac 360

agaatgtatg 370

<210> 37650

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E1

<400> 37650

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tgctcgaggc gatccgtgca agggcttggg aggtgacccc tgcagctgct ccgtcgagtg 180

gcacgtcggg ggcccagggg gccgcgcta cggaggacat cgcgatacgg atgccggctg 240

ctgggggtctc ggagatactg cggatggagc aagagtcatt ggagaacgcc gggcagaact 300

tgcacgatgc gttccaggat ctcaatgccc tcatgagcca cgctaaggag atgatgcagc 360

tagcagaaat actgatgctc aagctattaa tgaactcatc cactgaatc 409

<210> 37651

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E10

<400> 37651

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 agctgctgac aaacctcccc cgcacgcgct cgctaccaca gtccctcttc aagataccag 180
 aggggtactga gaactgaacg tggaagttaa gacctcacac cctcccttg gaataggtag 240
 tttgctgtaa gcctgtaaag attgtatcca agcaataaga aagcccctta tcacctctc 300
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<210> 37652
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 <212> DNA
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 cgagttccgg gtggagatcg acatcctgag caggctagac caccccaacc tggtcacgct 180
 catcggctac tgcgccgacg gcaagcaccg gtctgtggtg tacgagtaca tgcccagggg 240
 caacctccag gacatcctca acggcattgg ggaggtgagg atggactggc cgctgcgcct 300
 gcggatcgcg ctggggagcgg cgcgggcgct ggctacctg cactccagca cggccgctcg 360
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 ggcaaa 426

<210> 37653
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-032-Q1-K1-E12
 <400> 37653

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acaatatcac tgttgacaaa tgcactaagt ttggaattgt attcaaggat gttgtagcag 120
cttttgagat tgtcaactgc aatggcggtg aagtccaatg tcagggtagc tcaccgacaa 180
tatcaatcga caacacatct ggatgtcaat tatacttaag caaagattcg ctgggagctt 240
caattacttc tgccaaatct agcgaaatca atgtgatggg tccaagtggg ggcgctgatg 300
gtgattgggt ggagcatgca ttgcctcaac agtacatnca tagtttcaag gatggggcag 360
tcaccacttc accagtttca cacttangag cgtgaatata attgttact 409

<210> 37654

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E2

<400> 37654

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agctgttaag agctatccgt agcagggctg tcacacgggc agaagaacag ctgcatcgtc 180
atcaagaacc gccctgcaa aggtgtgcag gtttatacct gaaatactgg atagcatggc 240
catgccaaat gccactttga tgcatagaca tgttcaacag gaaaaagcta gcagatatcg 300
gtacttggtc acacaactgc gatatttcgc atgtgaaccg aactgagttc cagctgattg 360
atatatcaca ggatggattt gggagacgtt ttactcaaa tggcaacact aatgatgatc 420
ttagactccc aact 434

<210> 37655

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E3

<400> 37655

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gatcagaggt cataggcatc gccgcgacct gcaaggctga cgttgatgcg ctctccggga 120
ggctgctcga ggcgatccgt gcaagggtt gagagggtgac ccgtgcagct gctccgtcga 180

gtggcacctc agcggcagag ggggccgcgc ctacggagga catctggata cggatgccgg 240
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acttgcacga tgcgttgacg gatctcgaag ccgtcacgag cagagctcca gaaatgatgc 360
acctcgcaga atacatgagg ctcaagctat aatgaac 397

<210> 37656

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E4

<400> 37656

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ccagtataac acctgaccgg agtagtagga caggtagagc agatcaagaa aagcgggtgag 180
gagcagcttc cagatgcacc tgagcggcgg tggccggatg ttgccgccga aacagctgct 240
gaccatcgtc atcatcatct tctccacgct ctcttcatc aagctccttc tctcaccag 300
ctcgtcgtcc tcgtcagcgg gcttcacctt ccgcagcagc ccggcgtggg acgcagacgg 360
cggcggtaac gggacggcta ggagcgcgc 389

<210> 37657

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-E5

<400> 37657

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agctcgcgga caagctggaa gcggaggaga aggagaaggt ggaggacgcc ctcaaggacg 180
cgctggagtg gatggactac aactagtcgg gccataaaga ggacttctag gagaagctca 240
aggaagtgga cgtcatgttc aaccccatct tgtacggcgt gtacca 286

<210> 37658

<211> 213
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-032-Q1-K1-E7

 <400> 37658

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 aactgtggca tcgtcgtctt gcggctgcga agctgcagcc acctagctcg cgtatggcgg 120
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 ataatgcact atctatggac atctgctgca acg 213

<210> 37659
 <211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-032-Q1-K1-E9

 <400> 37659

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 accatctcag agagctc 377

<210> 37660
 <211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-032-Q1-K1-F1

 <400> 37660

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ccagagctac tggatcctcg gcacggaaac gcgcccgga tagctaggtg cgccctgtggg 180
 cccggccggc tcgtcactta cataggcgca cgcaccccc gcctggtgcg tcgtcgatcg 240
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<210> 37661
 <211> 121
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F10

<400> 37661

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 c 121

<210> 37662
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-F2

<400> 37662

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 cgc 363

<210> 37663
 <211> 159
 <212> DNA

<213> Zea mays
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<210> 37664
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-D7
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 aagttcgatc ttgacagtgt cagcccaagc agcacctaca agttcatggt ggctctggcg 420
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<210> 37665
 <211> 237
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C12
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<210> 37666
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C2

<400> 37666

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ttatccattt ggccttgga gacgcaggct ttcagtagag tggtcacggg gtgatcaagc 180
tggtagacgt gatggcaaca aaccagaagc aaatactaag ccaacaagga cactgtttgt 240
cattaacttt gatccaatga acacaagagt cagtgcacatc gaaaggcact tcacaaccatt 300
tgggaacata tcaa 314

<210> 37667
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C3

<400> 37667

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atgattccag gatatatggt cgatgtggtc ttggtaatgg tatggataac aggtacaggc 180
ccagggcattg tagtggatac tatggttatg gcaatgagag tcaggatgga acaattgagt 240
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<210> 37668
<211> 318
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C4

<400> 37668

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cgctcctcct actcccagcc gcagctggtc gggcgggcgg cggtcctggc agcggcgctg  180
ctgctgctgg cggcgggcgg cgggacggcg tggcgggcgg tgagctgccg cgaggtgacg  240
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<210> 37669

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C5

<400> 37669

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cgtccgtaag aacgggttca tcgtcatcaa gaaccggccc tgcaagggtg tggaggtttc  180
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caacgggaaa aagctcgaag atattgttcc ttcgtcacac aactgtgata ttccgcattg  300
gaaccgtact gagtaccagc tgattgatat atcagaggat ggatttgtga gccttcttac  360
ttcagatggc aactactaag atgatcttag actcccaact gatgagactc ttgtggccca  420
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<210> 37670

<211> 401

<212> DNA

<213> Zea mays

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<400> 37670

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cgaaccctaa tggactgatc atgaagtact ggctgatgtg ctgcaggcag tgcttccgca 180
gcatcgcceta ggacattggc ttcatacaagt accggtgaag tcagctgggc tggctatctg 240
aatgccatct cttggacagt gtaccacagg cgatgccaca gttataatta ctgtcattta 300
gatgctccct tcagaactct gctattgaag tccgtcatgt tcgtgatgga taactgaagc 360
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<210> 37671

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 37671

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ctgaggcacc tgctgggtgg attccaggaa cccgagcacg aagttgacag gtgagttctc 180
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gagggatgct ggccgcgggtg atggactact tcagctcctg ctggggcccg cgatcgggcg 360
ccgggcaccg gtgcaagggc tccgacgccg tcggccggca ggacggtctn ctctggtaca 420
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<210> 37672

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 37672

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 gtgaatccat gccatgttat gaatctagtc cttcctttct tgtatcttcc atgtgacgcy 360
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<210> 37673
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-032-Q1-K1-C9
 <400> 37673

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<210> 37674
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 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-032-Q1-K1-D1
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 tcaagtgaag cctttgtgat gaaccatgaa cttttgagaa aactatgtat ggagcatcag 180

catatgtata cttgtgtgcc tccaaaggta gaaccctacg gcagaagaat gtcgtgtttg 240
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<210> 37675
 <211> 331
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-032-Q1-K1-D11
 <400> 37675

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 ctagacgaag tgatcactag tgggtgcatg atctacttct ttattatgtg ccagtctgat 180
 gcatgacaca cacgtagcta ggacatttct gctacgacga cgactgcatg ctgctgatgg 240
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 tcttgggtcta cgtttactgt ggcgccgac c 331

<210> 37676
 <211> 232
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-032-Q1-K1-D12
 <400> 37676

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 tagaccaagc agatcactag tgcattgcatg atccactact tgattatggg ccagtccgat 180
 gcatgacaca cacctagcta ggacatctat ggtactacga caactgcatg ct 232

<210> 37677
 <211> 317
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-032-Q1-K1-D2
 <400> 37677

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aagaggacac gaacgac 317

<210> 37678
<211> 440
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-032-Q1-K1-D3
<400> 37678

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gctgtattct aacacgaaaa ccaacttccg tgagggttgc attaaagggt tctgggacat 180
gtatgacca tagggctact ccctgtggtt ctgtgactac aagtacaatg acgagaacac 240
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caaatacgcc tttggcaaga tgcttgccgt tggctctgag cccctttca aggtcaagggt 360
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ggagctctat gagtggacca 440

<210> 37679
<211> 365
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-032-Q1-K1-D4
<400> 37679

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gttgagtacc gctgcttcgt cggcggcctc gcctgggcca cggacgacca ctccctacac 180

aacgccttca gcacctacgg cgaggctctc gagtccaaga tcctcctcga tcgggagacg 240
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atcgaggggca tgaacggcaa ggagctggac ggccgcaaca tcaccgtcaa cgaggcccaa 360
tcccg 365

<210> 37680
<211> 428
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-032-Q1-K1-D5
<400> 37680

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ctgagacaga gtctcgcatt aacaagatag ttgtcatagg ccgcaatctg gatatcaatg 300
tacttcaaga ttcttttagt gggtgcaaga gctgataatg agtatctgtt tgcttgcac 360
aatgttagtt ggccattttt ctgtgaagta cctctgtgca agtgaatact gaaatggacg 420
agaatctt 428

<210> 37681
<211> 354
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-032-Q1-K1-D6
<400> 37681

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aggttgctgg gtttgcctct tatgagaagc gtatcactga gcttctgaag gttggcaagg 240
acaagcgtgc cctgaagctt gctcagagaa agcttggaac tcacaagagg gcatagaaga 300

agagagagga gatggcggac gtcctaagaa gatgaagtcg actgttacgc acac 354

<210> 37682

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C11

<400> 37682

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ctcctttacc cactggctg gcgagcagca aactccaggt gcagagcgga caagttcctc 120

acgagcgggt aattctacct agatgatgcg ggatatggag caaaactggg attcttgcct 180

gctttccgtg gtgtgagata ccatataaac caatggggca ataatcccgt acagaacgag 240

acagagttgg ttaatctaag gcactcatct cttcgtgtca cagttgagcg tgcattcggg 300

tcaactgaaga gaagattcaa gatttttagat gatgcatctg ctttcttgca ttttacaaca 360

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A6

<400> 37683

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tgtgctctac tatgagccat gactgggttag cagctacata gagtatatac atactagtga 120

cgtcatttag tgagcgacgt gatgattaca gtcgtattat gctataaatc cactatatca 180

ccatggcagg atgagtgtgc taatgtataa ctacccatca tgggccagtc ggtatatat 239

<210> 37684

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A8

<400> 37684

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 cactgggtca gaaccaacg gaggtgaac tccaggacat gatcaatgag gtggatgccg 300
 acggcaatgg cagcatcgac ttccccgagc tcctcaacct gatggcccg atgatgaagg 360
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-032-Q1-K1-A9
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 tggcgagcag taacgactca caacgacaca tttcacgtat cgacgacgtc atctacaaag 180
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<210> 37686
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-032-Q1-K1-B1
 <400> 37686

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 caggatgtta actgaatacg gcaccagatc gagagcgagc tgtagctaca agatctccag 180
 agaatagagg acatgccatc gacacatgtt aaccgtatga tagcaatgga ccctgatggg 240

ggtacccgac atcgacacaa gatactgcag gtacatacac ttcaacaaga agcatgcagg 300
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<210> 37687
 <211> 328
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-032-Q1-K1-B10
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 tgatgatcac aacagtggac tatttgaccc gtcgctagat gggctgtcag gtagtctcat 180
 acgcaacgcy gtgagatcac ttggatccgt tagaagaccg ccgagcacac aatgaccgct 240
 atcacacaga ccattaacg gatcatgtag atctaattgtc gacagaccac acagacacat 300
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<210> 37688
 <211> 365
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-032-Q1-K1-B11
 <400> 37688

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 acgacaagtc ctctgtcaca gacattgccc tctccagcaa ccatgaagag tccctgtgtt 180
 taggggggca gcccaggagc atcatcagct tcagcgaaga gtccccagc acgaagctac 240
 agatctgacg gtgcccagtg ttcatagatt tgtccaggct gaccgatgca gaaaaccata 300
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 gatgt 365

<210> 37689
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B12

<400> 37689

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tcacatcgta gctacgtggc gcaacctgcg actttatatg atacagcact cgcccattat 180
tgaattttgc agaagcgaac tctgtagacc acgcaaagaa cagtcgtggg cagtaacaat 240
cgtcgtctgt tggtagactg gccaaaaacc gcgagcatga tgctgcagca tgtagtgttt 300
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<223> unsure at all n locations
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<400> 37690

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ttcgagggct gtgtcggagg tgctgccttc ctgaaacaat tctaagatct atgcaggcat 360
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<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B3

<400> 37691

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cgcagggtcg cggcccccg ggcgcgcagg gcggcctggg gcagagcatc gcaggcatcg 180
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<210> 37692

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B4

<400> 37692

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taggcgaccc actcctaaga aggttacttc tcaggttcat cttctgccga gcaactcatt 180
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<210> 37693

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B5

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aaagcac 307

<210> 37694

<211> 404

<212> DNA

<213> Zea mays

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<400> 37694

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aaaaggttgg agaaaagcca cttttggcac gttcaacctt catacaggca gcccgtata 180

atgtacttct agctgacatc gctcttctat atgcaatcaa caattaccta aaattcatca 240

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<210> 37695

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-032-Q1-K1-B7

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<210> 37696
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-B8

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tttggtatga tggtgggtcag cctagggact acattactgg cttgcgtctt tatctagact 360
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<210> 37697
<211> 399
<212> DNA
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<223> Clone ID: LIB3069-032-Q1-K1-B9

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ccaagatggc ctatcgttgg aatgaaggg acacgtcggg cctctgtcca acgagaatag 300
cacttgcttt atgctaatat tgccgctgga caaacgaact ctgtgctttt gtgtgaaagc 360
aatactagct aatagactgt tcggatttct aatgaacca 399

<210> 37698

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C1

<400> 37698

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taaagtgtgg tggcggctct gccgatgaga agtcaactgt aggtatggag caacacaatg 240
gtgttcagaa gaatgttggc agtagcaagg tccagccaca tggacatgca actgaataga 300
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<210> 37699

<211> 294

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-C10

<400> 37699

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tgagctctac ttcaatatct acgtcaatgg tgatcttgca gtctaggatt tcgatctctc 180
cagtgcact ggattcttgg cctatcctta ttacattgac tttatcgtcg atgtgaagga 240
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<210> 37700

<211> 296

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A5

<400> 37700

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gggtgctctac tcatctacat tattattaca tgcctctaaa ggtgtatctt cagaagttca 180
catcgaccgt atttgcttac tctagccata cttacccatc atgggtccatg gggcgtgtat 240
attatcatgc catcttcaaa gaatggcatc aatgctacaa aaatgaatga gaaatc 296

<210> 37701

<211> 370

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-031-Q1-K1-G5

<400> 37701

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agctctggag ccgtttgtca aatggctcga ggaggctgan gaggaagaat aagctcttga 180
tttgagatt ggccgaatgt gacgaattat ggttctcgaa aatattacct tttcttattt 240
cgaaagctat gaaagggtga ggagttatgg ttgctgctag ttattgccga gtttggtact 300
ggcgatagat ttatgttatg ctngttangc acttggtctc cagctgcagt atgttgctgt 360
taagggtgtg 370

<210> 37702

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G6

<400> 37702

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aagctctgga gccgtttgtc aaatggctcg aggaggctga ggaggaagaa taagctcttg 180
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 tggcgataga tttatgttat 320

<210> 37703
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G8

<400> 37703

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 ctataaattt tttgagaaag aggtccctgt tgatgctgtc ttccagaagg atgagatgat 180
 tgacatcatt ggtgtgacca aaggtaaagg ttatgagggg gtggtcactc gttgggggtgt 240
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<210> 37704
 <211> 379
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G9

<400> 37704

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 caagtgtggc gtctctttca acgacgaccg gtgtgcaa atctttgaag cactagtgtg 180
 caccttgagg gccgccaaga agaggaagat cttgacctac gaaggcgagc tgcttctgca 240
 aggtgtccat gacaacgtgg agataaccct gttgccccca cctgcagttg ctgccgcttg 300
 aaacgaagag caccaccaag ttctcgattc catacaactc ggatgcttgt attctgccgt 360
 gcctatatta gattctctc 379

<210> 37705
 <211> 369
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 <213> Zea mays

<223> unsure at all n locations
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<400> 37705

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tcattactga gtttttcaag gagtaccttg aggaaaacag cttggatgat ttgattgcac 180
ttttgaagaa aggcaaatg gaggacaatc tgttggactt cttcccatca gctaagagat 240
cttctgaggg tttatctgag catttcacca aagaaggctc gactagcctt gttgagtaca 300
acgaanagaa gatgtttgag gttaaactta aggagataaa gtcaacactg actgctatga 360
taaattgatg                                     369
  
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<210> 37706
 <211> 231
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-H11

<400> 37706

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gcagcctggt tttttgaacg aagaataaca tggggatata ttacgacctt ttcatttgca 120
atacagttta caattggaca cacccttgca aacacacacc tttttcaacc aatggatttg 180
gcaccagagg ggcccctaga ccctctaaaa aacagggagg atcatggttt t 231
  
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<210> 37707
 <211> 168
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1^{*}-H12

<400> 37707

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gaagaccaca atctgagata tgaacgcagc actgctatgt aatattgtac tgcactcagc 120
agaatgttgg aagaatactt ttcattaccg actcgtttgg atcattgg 168

<210> 37708
<211> 311
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-031-Q1-K1-H2

<400> 37708

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cggatgatgca gaagctgcgc gccgtgctgg tggaccacgc cctcagcagc ggcgacgcgg 120
agcgggagcc ctccgtgttc tccaagatca ccaggttcga ggaggagctt cgcgcggtgc 180
tgccccagga ggtggaggcc gccgcgtgg cggtcgccga gggcacgcgc cccgtggcga 240
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gcgtgttcct g 311

<210> 37709
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-H3

<400> 37709

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gaatgtgctt cacaagatat cagaaaggga tttgaatgct ggtggatgtg ggcgccagca 120
atggcggaga tagacctggg ttgctgggtt ctgacccgga gagcattaac cggactggag 180
tttcaagggtg gcagcgggtt ccttcagctc ctaagattag atatggtaac tgtgctgtgc 240
aacttctctg gcaaattagt agtcacggag atctgaatgc aacttctctg attcattgaa 300
ttgaaatact ataattctgt ggcaagttac tccctttgct tttgcctttg aattgattag 360
ttagagaaa gata 374

<210> 37710

<211> 213
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-H5

 <400> 37710

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 tcattactga actatttcaa gagaagcact tctggaaaac acattgaatt acttgattgg 180
 acttttataaa aaaggcttcc cggttgatca aac 213

<210> 37711
 <211> 213
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-H6

 <400> 37711

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 taaggcgtaa atgtatggat catccttaaa atctggggtg acaatcatag gtgcctacca 180
 tttaccctgg tagttaggac tcttgatttt ctt 213

<210> 37712
 <211> 309
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-H7

 <400> 37712

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 atgactacag ccatcaaagc ccacagcctg ctctcaaagc agctgcctat ggcgcttatt 120
 cttcaacata ctctgttcaa gcctatacac aacaaagcta cacacaacct gcagcaattc 180
 cggcagcacc agtgccagca gtggtaccag cacctacacc ggcgtcagct taccctcagc 240
 aacctggggc agcttcttaa ccttattatg gaacaaccta ctactgacaa gtagagtaaa 300

tcttcgatg 309

<210> 37713
<211> 115
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 37713

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tcattaaata tttatcctga gtgaaaattt tcacaccaga agagtnatat tcttt 115

<210> 37714
<211> 84
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-H9

<400> 37714

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acggcgtttg cagtgggtgga gctt 84

<210> 37715
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A1

<400> 37715

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aataaatatt actagatcct tgcaaagaga aggagaaata ataaaatcta gaaaagaata 180

atacaaggga gctttgaaat gaaatattat ctatatataa accttctatg gattgaaaag 240

accgtttaat ctggtactgg atttcattat atttgattca gtcctcagt gcaggatatgt 300

actgacttca gtatcatgtt tattttatgt tctgaagtac aaatgccttt gtagggccat 360

aaatactttg cttttact 378

<210> 37716
 <211> 345
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-032-Q1-K1-A10

 <400> 37716

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 tgataagctg ctggagacgc tagaagagtt catgagggac cgggcaaaga ggctaagaa 180
 cccaccacgg gagcctgaac ctgagcctgg taaagaagaa cctgagccgg atattaacca 240
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 agaggtgaag cccgaaccaa cccacagtc acaaggggac ttggt 345

<210> 37717
 <211> 387
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-032-Q1-K1-A11

 <400> 37717

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 catggcgcca ggggctagca tgccagcggc aactgcgggtc gggatcgtgg tcgtgatgct 120
 tctggccgtc ggcttcccc tcgcggaagg taaatcgtgc acgaacgcgt tgcctggatt 180
 gacctcacac acggagcgcg ctgaggctca tttgcaggca gcggcgccgg ctacggtgct 240
 ccagcccatg attcaccgac accgacatgg tcacgagcag gaccttacct cgacggacga 300
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 gcttatgctc taccgtgagc tacgggg 387

<210> 37718
 <211> 227
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-032-Q1-K1-A12

<400> 37718

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gggtcttgat cctgcaagaa aggggggcca tgttcgagcg gcaagcatgc caacggccac 120
tgcgggtccg atcgtggtec tgatgcttct tgccgccgcg tttccgctca cagaaggtaa 180
atcgtgcacg aacgcgtatc cggggattga ccttgccacac ggagcgc 227

<210> 37719

<211> 231

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G4

<400> 37719

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atgggagtaa tatgtgcaca cactcatggc aagctctatt atgacgaatt actgagcctg 120
cgctctaate aatcgaccgc aagacgctca gcctatgatg actcccttgc ggcttgacct 180
tacatatacc tacagcccaa tggacattca cgagggttgc cactactctt a 231

<210> 37720

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A2

<400> 37720

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tggaaagtcg cggagctcac agggctgtct ggagaaggga gaagggcgca ggactttgtc 180
tgtaccttgg cgccgaggat caggcggctg gatgatagag ctcaagcgag ggctaagcaa 240
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ctaggcaatg tgggcatgta ctacgtatat cattttcagt cctgggggttc tctataagaa 360
acagtctcta ggttatctag catggtagaa ttcaactact cgtggatctc actcgggtgca 420
aagtattgca aagtacgcta tcttggtgta ccgtgc 456

<210> 37721
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A3

<400> 37721

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acttcaccag ccgagtagct aaaactgatt cctaggaaaa tgctgatgca gctgaagttg 180
gtgaatgcgc tgatctaggt attgaggctg atgatacaca gagttccagc gacggacctt 240
taagccctgc tactggcgta cagacagtag tatgattccc caaacatgct ggcaaaatag 300
cactagcacg tgaagaaact gaattactag ttggtct 337

<210> 37722
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-032-Q1-K1-A4

<400> 37722

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tgttgaggcc actggtgagg atttctctgt tgagccagct gatgagagga ggcccttccg 180
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caaggagct ttggatggtg gcctggatat tctcacagc gagaagaggt ttgctggttt 300
caagaaggat gacaagcagc tggatgctga tatccatcgc aagtacatct atggtggcca 360
tgttgctgac tacatgagga acctcgctga agaggagcca gagaagtacc agtctcactt 420
cagtgagtac attaagaagg ggaatgaagc tgatgacatg gaa 463

<210> 37723
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-E8

<400> 37723

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tgcagctcgt atatttcaag ccttcagggt ggagtcattc cacagaaaga aagtcgtgga 360
atacggagat gacacctgtg 380

<210> 37724

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-F1

<400> 37724

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aaggccctag atgtcatccc actgctgacg ccggagggtcg tcgacaggat cgaggcgggtg 180
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acggagttca ggccctctcc acgaaacttc atccatgac cgtgtgtatt ctgggcgtgg 300
tgctgtgttc acaaacacca gtctgtcagt cctgtgttgt gtattctgct ttccgataca 360
gattttggac caatc 375

<210> 37725

<211> 367

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-031-Q1-K1-F10

<400> 37725

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cacaggtcag gaggaaattg aaacagttga tgaaatcctt aaacacagaa caaggggctt 180
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tcaagctaag atatttgagc caaccctga ggggtgcccg aaggtgggtc tggccactaa 300
tatagcagag acttcattaa ccatngatgg tataaaaaata tgtattgatc ctggcttttg 360
taagatc 367

<210> 37726
<211> 361
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 37726

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aaaactgact tctttgttca agtcgattgg tgtaaaggct gtttttgaca caagctcgag 180
tcgagatcta tctcttattg aagcatgcaa tgaatttggt tcacgggtatc agagaagcca 240
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ttggatatgc tatgctgaaa agactcttgg ttcatacata ttaccttaca tctcatctgt 360
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<210> 37727
<211> 189
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-031-Q1-K1-F12
<400> 37727

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aacactgact tctgtgatca aatcaattgg tgtaaaagct gatcttgaca caagctgcat 180

tcgagatct

189

<210> 37728

<211> 214

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-F2

<400> 37728

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agcacggaca ccaccaaata aatccatatt tcgcagaaca tgcttgact agacatcagt 120

caactcttac taccagagaa tcaaatacata accctgtcta agctccaaag ctaccacaaa 180

ctcaacatct cactatcctt gagactatcc atct 214

<210> 37729

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-F3

<400> 37729

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cgagggcaca cctgcccga agtatctgct cgagtatggc gtggagccca agaacttcag 180

ctcctatggt ggccgcccgc ggaacaatga ggtggtgatg aggggagcgt ttgccaatat 240

gaggatcgtg aataagcttc ttgatggcaa ggctgggtccc tggacgatcc atgttccttc 300

cggggagaag ctctatgttt acgacgcggc aatgaagtac aagtcggaag gtcattgacat 360

ggtcatcatt gctgg 375

<210> 37730

<211> 316

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-F4

<400> 37730

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 cggttacgag atgtaggctg aggatggagc gtcgtccac ggcaacacta gactgttttt 180
 tttaatccgc aggacagggg agagctgata gcttggttagg gtgggtgatac acttttggat 240
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<210> 37731
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-031-Q1-K1-F5
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 tcaagtggaa ggaccgacat tcccgtagt tcaatgaaag tctgtgatga agttctgggt 180
 aggaaacagg gcgccaaccg tcacactggg atagagattc aggagtttat tgttgagaga 240
 tgaatatgga aactctgaat gcaccagttt tcacgtcatt gcgaacatac taatgatgtt 300
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<210> 37732
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-031-Q1-K1-F6
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 cagagcatgc tgagccaccg cggcgacagc ggggtgccag gcgccttcta cacctacgac 180

gccttcatcg aggccgccag caagttcccc ggcttcggca ccaccggcga cgagcagacg 240
 cgcaggcggg agctcgccgn cttcttcggc cagacgtccc acgaaaccac cgggtggatgg 300
 gcgactgctc cggatggacc gtttgctgg ggatacttgc cggatgaagga acagaaacag 360
 acgggcccac cctac 375

<210> 37733
 <211> 373
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-031-Q1-K1-F7
 <400> 37733

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 ttctggggtg gttgagttat caaaagcgaa tggaaagaat gccttgact ttgctgcccg 180
 gcaggggcat gtggaaatcg tgaaggcttt gctagatgct gataccagc ttgctcggag 240
 gactgataag aaaggccaga ctgctctaca catggcagta aaaggtacta acccggaagt 300
 tgatcaagcg cttgtgaatg ccgatccggc aatagtcatg ctacctgaca gaaatggcaa 360
 cttagctctg cat 373

<210> 37734
 <211> 299
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-031-Q1-K1-F8
 <400> 37734

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 cgaatccggc gatccagatg ctggccacga agggcagcaa taagcgcac tctggtctca 180
 tgtacgagga taccgcagc gtgctcaata tcttacttga gaacgtcatg cgcgacgcca 240
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<210> 37735

<211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-F9

 <400> 37735

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 agcggggggtg ctattagaga ttgtatcacc gttgtttgtt catcacacaa ctcacagctg 120
 ttaaccacca cacatgtatc caaagtaaag gcatttgaac gctgaagtgc aacacgcacc 180
 ctaaccatgc acgatcgacc tgtagacgac ggcaccgact ccgtcatcca tgctacattc 240
 accgatcacc ctcaggacga ctgcctgag cccaatgtca actgcagctc aaccttgacc 300
 cgaacttggc attttgctgg aaccattcca cttggctgga ac 342

<210> 37736
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-G1

 <400> 37736

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 tcgcttcatt ttggatgtga ctgttcttga tggaacactg atgacacctt ctaccccggt 120
 cactaagatt tggcgcacgc ataacaatgg gtctgttctg tggccacggg gcacacagct 180
 tgtctgggtt ggtggagatc agtttgcatt gcagacatct gttccattag agattcctgt 240
 ggatgggttt cctgtggaca aagagattga tgttcttggg tgatttgtgg cacctacaag 300
 accagggagg tacatatctt actggagggt ggcttccctt tttgtcagaa atttgtcaac 360
 gaagtt 366

<210> 37737
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-G10

 <400> 37737

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 tggatttaag ttatagttta ttaaacatat ttgatgttta atacttgtgt cggatgattt 180
 atgcttcaat tatgtggatg ctagaaaaaa aaaaactaca aaagcaaact gatatatgaa 240
 agagaacatg acaaacatgg agataaccct gatgccccca cctgctagtg ctgtcgcttg 300
 aaacgaagaa cacctcccta gttcttga 328

<210> 37738

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G2

<400> 37738

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 tgctgcctc agccgtgacc ccaaggctag gcctctgatg agccaggtgg tggaggtgct 180
 gaagcctctc cagaacctca aggacatggc cagctcttcc tactacttcc agtccatgca 240
 acatgagcgg cgcacagcac ttgccaaccc atatggcagt caaagcatga aagcgcagag 300
 cacctttgcg ccggacgggc agcagcccat gaggagcctc tcgtatggcc ctcatgcttc 360
 cccgtat 367

<210> 37739

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-G3

<400> 37739

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 cggctctaac gattgaccgg aagtcttcca gctgatgtgg cctcccttcc gtctttacgt 180
 tccatatacc tacagcacia tgaactttca ggagggttgc cttcttcctt cagtcctaac 240

ctcagtgtaa tagatttctc ctacaattcc ttcacaggag aagtacctgc aagtttacia 300
aacctcactc aggtaaccgt tottaatttg caagataact ctttctctgg atccatccct 360
gacctcaagc ttcac 375

<210> 37740

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-E5

<400> 37740

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caaagttctc tgggttatct ctttggaagc ggtgagcccc ccaaaccagc agtggcacca 180
gctgcaagtg ctccacctgt tgagaaacca tctgctgcaa agactgatgc ggccaagcag 240
gttgctgctg gggttaccag ccaaaccaat aactaccaca gggctgatgg tcagaacact 300
ggcaacttcc ttacggaccg tacttcaacc aaggteccag ctgctcctgg cgggtggctct 360
tccctgggct acccc 375

<210> 37741

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D1

<400> 37741

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ggaggtggtc caacgtgttg tggaaatatt gaagcttttc aacactagga cttgccaaact 180
tgttctcggt gcacgggcca tgcacgtgtc tggacttaaa tcaattacat ctaagcattt 240
agctctggcg agtcaaatca ttagttttat acattcttta attccagata tcagacgagt 300
gctcttcctg aaaatacctg tagcacgcaa acagttgcta atgtctgagc tggatat 357

<210> 37742

<211> 431
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-031-Q1-K1-D11

 <400> 37742

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 ccgtacccac ccagttagtc ctcagcctat cccgtgcccg cgcagagcac cggctctgct 120
 cgacccacca ccctctgtgc agagttaatt aaccttgagg ttcccgattg cccttacctt 180
 ccgtcctctc cgccattcgc cggcgagatt cagcggcaag gatgcgcctg cacgcggagg 240
 tgccgggatga gatggaggac gggagcggag tgggggctgt gacggcttca gcggggctgt 300
 cgtcaccgac actcatcggg gcggcggggc cggttccccg gctagtgggt gggttcggcc 360
 tcacgaagag gaaagtgaag agcttntctg agcccaagct gctcctgctg gccaggaaga 420
 atggaatcag t 431

<210> 37743
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-D12

 <400> 37743

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 gcgtggctgc tgctcctctc gtctctcctc ccaccgctcc aaggcatgga gcactgctat 120
 gtgggacagc cgatctcgag ggccgaggca atgcccagaga ggaggtccag gttttggcag 180
 atggatgcgc cccctccgtc ccgggcggag gtcactctgc cccagcctcg ccgcgccacc 240
 cggattcccc tcgccgctgt ggaaaccctg aacaaagcca gcccgaagat gaacgggtgca 300
 ttcccgccgt acagatcgga ctccacttgc gatatacttg atcttatcct cagtaagaat 360
 gacctcgatg gagattcgag cagccatgtg g 391

<210> 37744
 <211> 358
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D2

<400> 37744

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gtggagcggc gccttcacgg agttgtccca gagatcgaga agcaagagca agatcttgga 120
ggctgatggc aagggaaagtc ggcgcggcca tgcccggtgg ctttcggcag atatgacgag 180
caacggcagc ggaatggagg ttggtaaatt ctccaagac gatgtttcaa gatgtcctga 240
gaaaacagtg aacctacagg atctgcagaa cagcttgatt gcactaagg agcttgtaaa 300
agtacttgcc cacatatggg gacctggaga actgaatccg tctagtgtat cactcatt 358

<210> 37745

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D3

<400> 37745

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gcggatcaac acctccactg agttggccca catatcgaga agcatgagct cgatcttgga 120
ggctgatggc caaggaagtc tgcccgagca tgccctgtgg ctactgcag atatgacgag 180
caacggcagc ggaatggacg ttggtaaatt ctgccaagac gatgtttcaa gatgtcctta 240
taaaacagtg aacctacagg atctgcagaa caccttgatt gcactaaag agcttgtaaa 300
agcacttgcc cacatatcgg gacctgcaga accgaattcg tctagcgtat cactcatttc 360
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<210> 37746

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D4

<400> 37746

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agtacaccta gggttggtcc attgatgatg aacctctgtg caaactttgt caaggacttt 120

gcaatggaag gcttgcagag tcaacataat attttgaaga tctattatgt ggtctagctt 180
 gtttctagga atacagatta agaaccagtg gtagagccct acggcagttg agtcttcttt 240
 ttgttactca cataagtcaa ctttttttgc tggttccatt gaatagttag gactattttc 300
 agttattcaa aatcaaagaa agttgcaagt taattcatat atatgtaata aagt 354

<210> 37747

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D5

<400> 37747

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 atgctccaaa ttccaaagga aagaagggtc cagtgcagaa actgggtgat catgcatttg 120
 ttggcatgca gtttgtatga agagaattgg aagtctgaaa cgcgtagatt agacggtagc 180
 accaagccgc tctagaaaca ttggctgatt gtcagactta cactgctggg tctgtttctg 240
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<210> 37748

<211> 205

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D6

<400> 37748

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 tcttcccagt gccgtccttg ggcacccatg ggggtggcttg gtcccacaag tctattaaca 180
 ttcttgcctt aaaggcaaag gaaat 205

<210> 37749

<211> 367

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D7

<400> 37749

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tctcttccga aggcgtcgcg cgcggttggt tgagaggaga ggaggaagat gagggagtgc 180
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tgctcgagc acggcatcca gcctgatggc caagtgcctg gagataagac cgcgggacat 300
cacgatgatg ccttcagcac ctttttcagc cagactgggt ctgggaaagc acggtccccg 360
tgcaatc 367

<210> 37750

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-D9

<400> 37750

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catttgattg aggcctgaat atcaatatat cgggtgtgaca tgggtgttgat gttcaggagc 180
cacacatgct cattgccaat ggagttcact cctgtctttc gagaacccaa atgccttggg 240
tgttaagtga cgtgttgcat gatttttttc ctccgccccg ttcagttatt atatatgcta 300
ctatggcgct accctttttg gacgtttttg gtgcttgatg cctcactgat caatgcgaga 360
tgtaatcagc tcttggtgctg gagctttcag agtgctgtcg ctgtcactgt cagtgccacg 420
ccatttt 427

<210> 37751

<211> 307

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-E1

<400> 37751

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 gcgtgcgcac caagaccgtg aagaagacct tcaggcaggt gatcgagaag tactacttcc 180
 gcatgaccct tgacttccac accaacaaga aggtgctgga agaggtctcg atccttccct 240
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 ggggccc 307

<210> 37752
 <211> 213
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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 ccaaagcgcc gtccatcgac gacaccatcg agacgtacat cggcgcgacc ggttccatgc 180
 agctgctcag ggccgtntctg ctggcattcg cgt 213

<210> 37753
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-E11

<400> 37753
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 tcgacgcgac cggttccatg cagctgctca aggccttccct gctggcattc gcgtgggcct 180
 tcgacgcgca gcacatgttc atctgcgtgt tcacggacac ggagccgcag tgtcactgca 240
 cgggcgcctc gtgcctcttc aagccggccg taccctccggc ctgcgcgtgc gcgtctcct 300
 acggcgcctg gacgtcggac ctgtcgggtcc aca 333

<210> 37754

<211> 259
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-E12

 <400> 37754

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 gcaggcagca tgggtggtttc tcattagttt tagtactggg ggttgctatt ctgggaatac 120
 tgctaggggt cctcatgaag agatgagcgc atgtaatgac ttatcttgtc tggcttttct 180
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<210> 37755
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-031-Q1-K1-E2

 <400> 37755

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 atcaacaaca agctgcagct ggtgatgaag agcggcaagt acaccctggg ctacaagacc 180
 gtcctcaaga cgctgcgcaa ctccaaggga aagctgatca tcatcgcaaa caactgccct 240
 tcacttagga agtctgagat tgagtactac gccatgctgg ccaaagttag cgtgcaccat 300
 ttccacggaa acaatgttga tcttggcact gcctggggca agtactac 348

<210> 37756
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-C9

 <400> 37756

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aaagcatcat gggtattagg atttagattg cttgataaag cagccaagac attgaagttt 180
ggagcctgct tattggagcc ctttcccaaa ccagatgacc aagagagccc aacctggaag 240
cttaggagga ctgtgtggat gccatagacc acctgatatt cctcacacta cattacttat 300
gtctttcttct gggcctatgt ttttagccct gccgcaaatt ttctgaacct atgtatcgaa 360
aggctgcatt tgagactgca tgtatttgct tgtttggaac ctgcttcagt ttagtcgttt 420
ttttgaaaaa 430

<210> 37757
<211> 249
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-031-Q1-K1-E3
<400> 37757

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atggctctac tggaagcacc gctagttgga tgcagaagtt gccgcaagga aagctggagc 120
atctgcgaag cgagctgatt atatcgcttt agcagcgggt cacatgaacg gtcgcgagct 180
gttccaaaca tgaccctgag tgttcgacaa cagctttttac tgagatcgtg tactgctact 240
gaatctgca 249

<210> 37758
<211> 415
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-031-Q1-K1-B11
<400> 37758

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tgatgagact gaggacgaga agaagaggaa ggaggagctg aaggagaagt ttgaggggct 180
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cgttggtggac tcaccgtgct gccttggtgac tggcgagtat ggctggaccg tcaacatgga 300
aaggatcatg aaggcacagg ccctgtagga ctcgagcatg gcgggctaca tgtctagcaa 360

aaagacaatg gagatcaacc caaagaaccc tatcatggat gaactccgca agcgt 415

<210> 37759

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B12

<400> 37759

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ccaattcgaa cattaataca tctttgctga aggcattctaa aactgttcct gggcaagagg 120

aggcagaagt gtctcatgat gttttggatg ccactataat atcatctaat ttttggccac 180

caattcagat agaagacctt gttgttcctg cttcagttga tcagttgcta tcggattacg 240

caaaacgatt tcaccagata aaaactccac gaaagctatt atggaagaaa aatcttgga 300

cagttaagtt agaactgcaa tttgacggaa gaagcgtgca aattactgta gtcctgtgc 360

atgctgcaat cataatgcgg tttcaagaga aa 392

<210> 37760

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B2

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gaggagtgga aggacaagtg cgcggtgacg tcgatcaagg acgctgccgc gggctcggcc 120

aaggtaagg gccgccgtgc cggcttcggc aaggctgggg gcacggtggc cgcagcatga 180

cgacgatgct gatttgctga acctacacct agctacctag ctaccaccag cttctcctca 240

actagccagc tgcaagctcc gattattcac ccgtgcaacc atctatatac taaccatgca 300

tcatatatga tatatccca gctagctcaa tcgattatta attatttgtt atccggatcc 360

atcgctcatc gctgcatgc 379

<210> 37761

<211> 366

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-B3

 <400> 37761

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 ccctcgaggc tcacctcgcc ggcaaaacct atgtgtctgg tgactccatt actaaggatg 180
 acattaaggt cttcgccgcg gtgccgtcga agcctggcgc tgagtttcct aatgccgccc 240
 gctggtaaga gaccgtctct gcggctgtag cctcaagatt ccctggtaag gctggtgggtg 300
 taaatctgcc tgcgggatca gtcctcgcg cagctgctcc tgcggatgaa gctgaagatg 360
 atgatg 366

<210> 37762
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-B4

 <400> 37762

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 ttgcgtgccc gcaggacgcg ctgagacaca aggcattcat ctatcccacg gtgaccgtgg 180
 aagccctagg agtgcacggg tcgtagttcc tggatgaacgt gttctacgac aagagctgcc 240
 cggggctgct cgtcagcgtg ctggaggcct tcgacgagct gtggctcacc gtgcttcacg 300
 ccaccgtggc ctgcgccgac ttcttccgac tgcaggacga gggcggagag aacgtggcgg 360
 acaacgtgga cgagcacg 378

<210> 37763
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-B5

 <400> 37763

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 tcatcggtt cgtctggatc cagtcgggt ggatgggcca cgactcgggc caccaccgca 120
 tcacgggcca tccgctcctg gaccgcgtcg tgcaggtgct ctccggaac tgccctactg 180
 gcctcagcat cgcttgggtg aaatgcaacc acaacacgca ccacatcgac tgcaacagcc 240
 tggaccatga cccggacctt cagcacatgc cgctcttcgc tgtctcccc aagctgttcg 300
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 tc 362

<210> 37764
 <211> 337
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-031-Q1-K1-B8
 <400> 37764

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 gagcaccaca agaaggccga ggagcaccac aagaaggagg aggggggagca ccacaagaag 180
 gacggcgggg agcataagga aggcacgtg gagaagatca aggacaagat caccggcgag 240
 cacggcgaca agtccggcga ccacaaggaa aagaaggaca agaaaaagaa gaaggagaag 300
 aagaagcacg gccagggcca cgaccacgac cagcagc 337

<210> 37765
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-031-Q1-K1-B9
 <400> 37765

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 cagccaggtt catgctggat ctgctgaaga atgctgagag tcacgtgat gtgaaaggct 120
 tggatgttga caacctctat gtttcacaca tccatgtgaa tcaggcccag aagcagatgc 180
 gccgcaccta ccgtgctcac gggcgcatca atgcctacat gtctcagct tgccacattg 240

agctgatctt gtgagagaaa gaagatcctg cgaagaaaga agctgacaac attgtcggat 300
gaaggaagca gtgaagtata tcaacatgct gatcgaggcc attttgacga agcattatag 360
ccgtagctct tttat 375

<210> 37766
<211> 373
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-031-Q1-K1-C1
<400> 37766

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aagtccagaa ctacaaaacg aagccatcgt tgatggatgg tttcatacag gtgacattgg 180
agagatgacc ccagacggga tcttgaaggt gattgacaga aaaaagaaca tatttaagct 240
gtcacaaggg gagtatgttg cggttgagta cctggagaaa gtgtatggct tccctccact 300
cgttgaagat atctgggtat acggggacag tttcagatca agtttagttg cagtagtcaa 360
tccacaccaa gaa 373

<210> 37767
<211> 344
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-031-Q1-K1-C2
<400> 37767

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cccaataatt cactgcccac gcccgccatc gccaccactg gcgtccgcag cccgccata 120
ataacgctcc caaagcagag gccgaaaccc gcgacgcgca gcgcagggcc agtggcgacc 180
tccagctcca gtcagctc cacacgcggg cgccaccaag gagctgagcc gagcccggca 240
ctgtcggcgg ccatgtccgc gccgcgtcgc cgcatggcca ctgcctcccc gtcgctccgc 300
ttcctcggcc tgctcaagca acccgacgac gccagctccc agtc 344

<210> 37768
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-C3

 <400> 37768

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 cccgaataat tcaactgcca cgcccgccat cgccaccact ggcgtcgca gcccgccaat 120
 aataacgctc ccaaagcaga ggcccaaacc cgcgacgcgc agcgcaaggc cagtggcgac 180
 ctccagctcc agctccagct ccacacgcgg gcgccaccaa agaactgaac cgagcccggc 240
 actgtcagcg gccatgtccg cgccgcgtcg ccccatggcc actgcctccc cgtcgctccg 300
 ctttctcagc ctgctcaaac aacc 324

<210> 37769
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-C4

 <400> 37769

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 tatgaagctg aaaatgcaat tgctaactctg gtgaaagtgt ggataaaaga aagagtagac 120
 agactaaagg gatgggttga ccggaatttg aagcacgaga cctggaatcc aggtgccaac 180
 agggataatt ctgctgcctc ttacgtggag atgcttcgag ttattggtga aacgttggat 240
 gcatttttgc aattgcctat accaatgcat ccgggtcttc ttctgatct gacagttggg 300
 ctcgacagaa gcctacagct ttat 324

<210> 37770
 <211> 364
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-C5

 <400> 37770

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gtgtaagaag gggcctcaga ccagaatgcg ccgatactgt tgaaattaga gataccatat 120
 ttcaccgtat catgtattca ggtcctgtat gtgaagataa ttgaaatgag tggttatcag 180
 gcactgctct gggttagata tatcacagtg gctgggtgaat atgagctgag actgatatga 240
 gttctctctt ctctggctgt cggacgactt ttgaagctgc aggacactaa agatacatat 300
 ttgctatcga cacagcgaac agttttcatt cggatgttgg cctggaagtc ttctgccgac 360
 cata 364

<210> 37771
 <211> 345
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-031-Q1-K1-C7
 <400> 37771

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 gtttgccaaa aatctgattt aacttaaagc atcatataat tatcctcaaa ttacaatata 120
 aaccagctct caaaacatgc taaaatgaat caaaaaggac cgtttacatt gcttacgttt 180
 acagcaaagg acgttttcaa agggaaacca ttttccaac gagccttagc catgatgcag 240
 gaaaagcttg ccattcttgt cacaaaatgc cctacttaa atctctgcct cattttccgg 300
 ggctttcttt tgagctccg cattcttttt tttttccact tggcc 345

<210> 37772
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-031-Q1-K1-C8
 <400> 37772

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 ccacttcgaa tcgaaggccg acgccggagc gtccaagacc taccgcgagc aggctggcac 120
 cgtccgtaag aacggcttca tcgtcatcaa gaaccgcccc tgcaaggttg tggagggtttc 180
 tacctcaaag actggtaagc atggccatgc caaatgccac tttgttgcca tagacatatt 240
 caacgggaaa aagctcgaag atattgttcc ttcgtcacac aactgtgata ttccgcatgt 300

gaaccgtact gagtaccagc tgattgatat atcagaggat ggatttgtga gcctttctac 360
 ttcagatggc aacac 375

<210> 37773
 <211> 359
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B10

<400> 37773

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 atgagaaatt caatgagcgc tatcaaagat gagccagaag ggaccattga tccaaccaga 120
 gttttggaaa aggcttatat tagtacgaaa gcaagggggg catctaccgc gtgtatcatc 180
 actcttaaag atcaggggat ccatgctgta aatcttgggg atagtgggtt cgtagtagtc 240
 cgagatggcc gcaactgttct caagtcaccc ttacagcagc atgatttcaa ttttacttat 300
 cagctcgaga gtggaagtgg cagtgatctt tctagtttcg cacaagtatt tcacttttc 359

<210> 37774
 <211> 402
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-030-Q1-K1-H4

<400> 37774

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 ggaccccncc aacaccggcg gagccgncac tggaaaaacc ctatcagann gggacatcan 120
 cnnggataaa gaaaagganc aacacctatg cacttgagca atttcttgcg ttatcagtga 180
 agttctgcaa ctcgattggg ttccggatgg cttgcacaat cacccttaag acagcaacga 240
 acagcaccag atcatggcag gtgcgtggta ctgcatacaa gtggcatcgc tacatcatcg 300
 gagtgggctg gaagagcttt tgccaggata acagactcaa ggcaggcgac ctgtgcaacc 360
 ttaacatcat cgagaccacg ctgtggcatg ttactatcac gc 402

<210> 37775

<211> 303
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-030-Q1-K1-H5

 <400> 37775

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 aggaacgagc nncgcccggg accgagaccc gggcgagcaa ngaggcnaaa cacgggacgg 120
 gggacggcaa gcccgggagg gcgaggaggg ancnaaagca angccaancg ggggagaacc 180
 agcgagccag cagcagcagc cacgcannca cgccaacaag gcaagggaag ggaagnccga 240
 acgggcagag gggaccagga aaccgaaaaa aaaaaaaga aaaaaaaaaa aggaaaaaaa 300
 caa 303

<210> 37776
 <211> 300
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-030-Q1-K1-H7

 <400> 37776

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 gaaccnccc gagcacgccc ggcgaaaggg ancacgagca ggccggagcc gcgggacagc 120
 cngcnggggn accaggagaa caacgcggag gngncgaacg cggcgccggc ggggcaggng 180
 cgggcggcgc aggagaaccg ggaccagcag gccgcgcagc agcccggggg cgcgggagcg 240
 ggcgcgagcg acgacggcgg ggaccggcac gggcgagcgg gccccggccc gggcccgggc 300

<210> 37777
 <211> 311
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-030-Q1-K1-H8

 <400> 37777

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ggactttctcc atcaccttct gatccgtcac tggaaaaacc ctatcagatt gggacatcat 120
 cttggataaa gaaaaggatc aacacctatg cacttgagca atttcttgcg ttatcagtga 180
 agttctgcaa ctcgattggg ttccggatgg cttgcacaat cacccttaag acagcaacga 240
 acagcaccag atcatggcat gtgcgtggga ctgcatacaa agtgcacgcg tacatcatcg 300
 gagtgggctg g 311

<210> 37778
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-H9

<400> 37778

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 ggaaaaaaaaa aaaaaataga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa ataataaaaa aaaaaaaaaa aaaatataat aaaaaaaagg 180
 ggggactttt taaaagttcc aagtttatac ttcccttatt ttgaaaaatt tatttttttt 240
 tttgggtcaa aaaaaatttt tttaactgcc tgttttt 277

<210> 37779
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A1

<400> 37779

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 ccgctccgct cccctccgct cccgaacggt cgatctttgc atggcagcag cagctggctc 120
 caagggggcg gcgatcgctg gaagcttcgt cagccgcgtc ctgccggca aggccgcctc 180
 gccgaggagg gccgtgcacg cctcggcgta cgacaagaac ctggaggaac aggtgcgccc 240
 ggcgttcgtg ccggacgatg tgatcggcag cgccgggagc cccgacaagt actggagccc 300
 ccaccccaag accggcgtgt tcggcccggc ggcggtggac cccaagctgg cagctggtgg 360
 cgcg 364

<210> 37780
 <211> 214
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-031-Q1-K1-A10

 <400> 37780

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 agctcgaagg agaagcccac tcttggaggc acgcggatta agacccgcaa gcggaacatt 120
 gcagctcctt tggaccctgc atcattctct gatgcaattg ttcagattta tctggataaa 180
 ggtggagatc tggaactcgt cgccaaaagt attg 214

<210> 37781
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-A12

 <400> 37781

 aaaaaagtac ttgtatttct tttgttccat ggtgtatgtg gtggtgggcg gctcagccgc 60
 gtgagtgcag tattgggcaa accggaggct gcggcaacct tgtgcagttc ggccacgaat 120
 atactaggga agatcgcgac caatcaatca atcgatgacc gagttcaatt gttcagcatt 180
 ctttattagt tttggtgggt ggatacttca atcggtgagc cgaacagaca gttgttttga 240
 gtatgaattg ctctgcatct gcaaagttgt tgtttgtcat ccgctgtctc aataaggcga 300
 agggaagaaa aaaaacgcaa acattaatct atgttaaatt agtgtggcaa aagttgaaac 360
 aatttttgcc ttttgacctc taattccaaa aaaaaagggg gggg 404

<210> 37782
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-A2

 <400> 37782

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ctggttcttt ccaaccact ggacctgga cggatgtgaa ccctttccag cctgcttcag 120
 ccgcaagctt tggtttttga gacactcttg gtgatctcac ttttgcacca aatgctgcac 180
 ctgagctgca agatatgttt gcaaacacag cctccttgcc ttcagaggta gcaccagcaa 240
 acccatctgt ggttctccaa cagccagttc ctactaattt ctctctcag gtatctcage 300
 cagttgctgg cacattgcat gctgctcta cagcatttgc tccttctcag gctcctgcca 360
 catcatttgc tcattctcag ggg 383

<210> 37783

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A4

<400> 37783

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 gacgtcacat ggatgggagc ttcattgaaa tgccaacgaa gtctgaagca ctacaaatct 120
 ttctgccgta caggaattac tatctcgggtg catagctttg tatacattat ggggaagag 180
 atgaacagac ttattgctta tgtggaagat ctctatgagg atacaaattc ctgcaacatg 240
 gtcaaggtag aatgggttgg caaagctgat gaagttggtg ttctgttgcc catggatttt 300
 gatgacaggg agattttctt ttctctggga cggcaagatc tcaatgtaat atgtattgac 360
 ggattggctg c 371

<210> 37784

<211> 316

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-031-Q1-K1-A5

<400> 37784

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 atactgaagc agaattcaac aagaaatatg aagatctact ggacggctcg ggatcttcgg 120
 tccaccagat ccatacacct atcattgagg gctcagttag ctcaccagtt gtttctgctc 180

caagagataa gactccagca ttgaattcac ctgtcattga tgccgaagaa caccaagttc 240
 gcgaatctcc gacttcacca gctggagggtg caagagctgg tgttgtcact aanggcaatg 300
 tggttaaccat gggcca 316

<210> 37785

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A6

<400> 37785

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 cttctaggag gatgagatcg accccgagct gcgctagtcc ttacagcgaa acagcaggggt 120
 cctcgccatt tcgggggatt gttaccctgt ccctggaaca cgctgaacac gaagcagctg 180
 ccagaggcgg agccccctgc gaacaacgag ctgctcacga cgaagcacgc gagagggggc 240
 ggcgcgtagg gagccccac actggcaact catccttggc ttatgcgaat tggcggacac 300
 ccaactggttt gggatgatgt gtcggtctgc gccagatgcc ctccactgtc gtcgatgtca 360
 gatcactgcc tat 373

<210> 37786

<211> 356

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A7

<400> 37786

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 gttattattg aaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa taaaaaaaaa aaaaaaaaaa gaacataaaa cacaaaaaaaaa ggggaacctt 180
 ctaaaagatg caaagctccg atgcgaacaa tgagatgcta acgatgaagc acacgagaac 240
 gtacatgaaa gtaaggagcc ccatactag aaactcatac ttgggaaaac cgaattggca 300
 cccaactaaa gcctttggcg ataaattccc tttttaccag atgccctaaa atggaa 356

<210> 37787

<211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-A8

 <400> 37787

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 gggaggggag cttgagcatg tcaatgtttt ttccttgta atgatggatt gcaaaaggta 120
 catagcaagg acaaaaagca atggggacag tgggtcacct tgtctaactc ctctttggca 180
 gcgagagacct ttccgggcac cccattaaga agcacttgag atgttcccga gtccatgac 240
 atatttatcc actaatgcc a ttttgggtcca aatcctttgt gtgtaaaaat gctcctgatt 300
 accggatgct ccatcttgtc aaaagatttc tcgaaatcta gtttgaagat aaccgaccct 360
 tttttactgc ttac 374

<210> 37788
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-B1

 <400> 37788

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 gtagctggat caaaccatcg tgctctcgtc tcgacagaaa ccccggccga aaaccagcc 180
 ctgttcgccg cgcgcgcggt gccagggccg tgccagatct gcgagatccg cgccgactat 240
 caccaggtgg atgctctcgt gatctctcgg aggccgcggg gactgagcag cgtctcggcg 300
 gggcggtggc ctgcatagct gttggcttgc cgagatgcaa cggaacgggg tgggtggaatg 360
 cagcgtgt 368

<210> 37789
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-030-Q1-K1-H2

<400> 37789

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gacaagcgcc agncagccgc aaaagcgcg agcgaggcnc agaagcgaag gcgnccaaga 120
ggcngcagcn ggcgggcgag ngcgaggagg cggcgggcg gcgcgccgag cggacggagg 180
cccacggccn ggaggacggc gcaagcagcg acgcgacgcc ggagaagcag accnnncaca 240
agcccagggc cgcgggcgac ccggaggccc aggacgcnga gcacaagccc gccgnncacc 300
aggccgcgaa gccggaagcc acggcgagcc cgaccaccac caccggcacc acggcgggcg 360
cggcgggcac 370

<210> 37790

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-F12

<400> 37790

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tgaagtgtct ccatgaggca gcgggtcacg tggtagcggt ggagctcaag accggcgaag 120
tgtaccgggg gtccatggtc gagtgcgagg ataactggaa ttgccagctc gagaacatta 180
ccttcaccgc caaggatggg aaggtttcgc agctggagca cgtcttcac agaggaagca 240
gagtgagatt tatgattata cctgatatgc tcaagaacgc tcccatgttc aagcgcttgg 300
aagcgagaat taggggcaaa ggatcagcta ttggagttgg gcgtggacgt gcagttgcaa 360
tgcgtgctcg ggctgcttct ggctcgtggtg gtggtcctgt tgggcgaggc agcgcg 416

<210> 37791

<211> 100

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-F2

<400> 37791

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ncaggggaaa aaggaacaca gacnacaggc cgaaggaaga

100

<210> 37792

<211> 366

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-F5

<400> 37792

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ggggcggcnca cagaggccga caggaagaac gannngcncg cggagaacgn caagacgncc 120

ggcgnanccc gcnacgggga aaagagnaag gcacgagagc agnngccnng aaaggcgacg 180

caaaaggggc aggangaggc gcnacgnac ncgccccggg aagcgccacc ggancccggg 240

agaaggaagg ccaaaggagg gaaaacaaca aagagacca gcagcagccg gctgcagaag 300

cttggaaga gccgggttac caaatcggtt cttcaggaaa tactgagcat caccattgaa 360

gaattt 366

<210> 37793

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-F7

<400> 37793

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tcccctgatt ctctccgcc agctcagctc agtccccgc cgctcctctc cgcgcccctt 120

catcccggat ctggcatgg gcaccgccac caccaacggc tcggcggagc aggcgtccgc 180

gcccgtgccg gcgctcaagt tcctcatcta cggccgcacg ggctggatcg gggggctgct 240

gggcgggtgtg tgcgcggcgc gc 262

<210> 37794

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-F9

<400> 37794

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gactgggtct accggtggcg gccacggtga actgcgcgga caacacgggc gccagaacc 120
tctacatcat ctccgtcaag ggcataagg gccgnctcaa ccgccttcg tccgcctgtg 180
tcggcgacat ggtcatggcc accgtaaaga agggaaagcc cgacctcang aagaaagtga 240
tgcccgccgt catcgtccgc cagcgcaagc cgtggcgctg caaggacggt gtctacatgt 300
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tcaact 365

<210> 37795
<211> 99
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-G1

<400> 37795

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ccttggaag ccaatcgatt tagcaagccc gtactacat 99

<210> 37796
<211> 401
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-G10

<400> 37796

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ggcgcgcagc aaggcgggtg gagcatcatc acccggccca tgttcagag catgctgagc 120
caccgcggcg acagcgggtg ccaggcgcc ttctacacct acgacgcctt catcgaggcc 180
gccagcaagt tccccgctt cggcaccacc ggcgacgagc agacgcgcag gcgggagctc 240
gccgncttct tcggccagac gtcccacgaa accaccggtg gatggcgac tgctccggat 300

ggaccgtttg cctggggata ctgccgggtg aaggaacaga aacagacgga cccaccctac 360
tatggacgag gacccatata gctaactcat aagtacaact a 401

<210> 37797
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-G11

<400> 37797

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gcatcgaacc accccggggc gagccgcaag caagcagcca agcagtgtga actgaccgtt 120
cgttccgtcc aggccaccat ggaagcgccg ccggtaccgg agctcatgga tctggacgcg 180
cccccttccg tcgcagccga cgccgcagcc gggcgccgg ttccccctgc cgtcagcgac 240
aagaagaaag aaagggaaag gggagacact gttacgggcc acatcatctt caccaccatc 300
ggtgggaaga acggcgagcc gaagcggacc atcagttaca tggcagaacg tgtcgtgggt 360
acgggctcat ttgggatc 378

<210> 37798
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-G12

<400> 37798

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ggttccagat gcttttatct catcagtac tgctggggta ataccatctt gtaaagccct 120
tatctgtgtt cctaattggc tgggtgcaat atgcctcaat aatcaaggac ttgaggctgt 180
cagggaaact tcagcactgc gatttcttgt agataccttc actagcatga aatacttgat 240
accaatgaat gaggggtgtg tccttctagc taatgcagtg gaagagcttc ttcgtcatgt 300
gcaatccctg agaagtattg atgttgacat cattattgaa ataataata gactaagttc 360
gtc 363

<210> 37799
 <211> 365
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-030-Q1-K1-G3

<400> 37799

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 tccgcgacag aagtctacaa tgatgcctcc atggtcgtcg ccggcgggtca agccaagtag 120
 gggatgcagg aggaggggtc ccgcggcgag gatgagtgga tcaagtgggc tagaggcaag 180
 acttggccat cccttggtc atggtcgcgg ggttggggcg tctagtgtgg cgcgagctcc 240
 gtggttctac tgtgggccac accagcgtgg gagctctaac gcgtgggtgga gttgcctctg 300
 ttgggtgggc gtggtgtgat gttaagaagg tggcagccgg cggcccgtat cggggcggtt 360
 ggtgg 365

<210> 37800
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-G4

<400> 37800

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 gaggagaagg cggagaagac gaccgcaggg aagaagccca aggccgagaa gcggctgccc 180
 gcgtccaagt cctccggcaa ggagggcggc gagaagaagg ggaagaagaa ggccaagaag 240
 agcgtggaga cctacaagat ctacatcttc aaggtgctga agcaggtgca ccccgacatc 300
 ggcatactct ccaaggccat gtccatcatg aactccttca tcaacgacat ctttgagaag 360
 ctggccgg 368

<210> 37801
 <211> 366
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-G5

<400> 37801

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ggaccggccc gtaattatca ggcactctgct gagtgattct acagatccat ttaaccgctc 120
ccacctcact caagacatgc tgataccaaa cacggagctc aagttgcaga tcgaggagtt 180
tgtccgggtcc cagcagtcga gaaagcgaac tgctgcggcg ttgctggaga ttggcgaagc 240
ggagggtact gatgatatgg ccgaatgaat tgtgccagga gcaagggatg gacacatttt 300
ttttgtgggg aaagagtgat ggtaattca catgaagtgt atcgggccat ctgtccgtat 360
aaagtt 366

<210> 37802

<211> 347

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-G7

<400> 37802

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gcggtggtgc tgctggcacc atgtcttctg cgagatcatt catgtcgtcg ttgagtatag 120
acaggagcat ggcgagcttg gatgggaagc ggccgttcca tttggtaggc accccggtgg 180
cgagcgaccc agcagatgcg caccgtgcgc ccaaacggcg atgcacgggt agaggggagg 240
atggaagagg caagtgtgcc actactggca gatgccattg ctcaaagaga atgaaactgc 300
ggattaagag gtccattaga gtgccagcca ttagcaacaa aatcgct 347

<210> 37803

<211> 320

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-G8

<400> 37803

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gggccccgagc agaggccccg gcaaacgcgc agcgcacaca aacacacacc agcccagcac 120
cgagagaaca gccggcgggc ggcgagaaga gccgcggcac gggcgcgggg aaggaccggc 180
acaacaccag gancgcccc gagggacgcc ngnaccaagg cgaggacgcg nncaaggcgg 240
agaagacagc cggaggcacg gcgaacggcg nccgcggcgc ggacaccgac agcggcgaca 300
cccagaagaa agccccggac 320

<210> 37804
<211> 345
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-030-Q1-K1-G9
<400> 37804

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gtcgtccgga atgaccagcc gaggtttgag acttgctacc agatcgctct tgcgatcaag 120
aaggaagtcg aggatcttga ggctggtggt attcagggtta tccaaatcga cgaggctgca 180
ctgagagaag ggctgccgct ccgcaaggct gagcatgcat tctacttga ctggggctgt 240
ccactcttca gaattaccaa ctgcgagatc caggacacca cccagatcca caccacatg 300
tgtactcca acttcaacga catcatccac tcgatcatcg acatg 345

<210> 37805
<211> 179
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-H1
<400> 37805

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gaccggcacc agngagaaga ggcggcaaan angggccggc nccggcacgg cccggggggg 120
acnacgagca caggcgcan cngannaaca agcncggcgg gagggcgcca gcaagcaac 179

<210> 37806
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-H10

<400> 37806

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gcatctcgct cttcaaggct ctgctgcagg tcacccgccc caacgtcgtg gtggagggcc 120
tcgtcccggg gacgcagagc taccgcagcg tggcgagta ccgcgaggcc gtccgcgtgc 180
cgggcttctt cgtcgtcggc gtcgagtcgg cgtctactt cgccaactcc atgtacctgg 240
tggagcgggt catgcgctac ctccgcgacg aggaggagcg cgcgctcaag tccaaccacc 300
cctccatccg atgcgtcgtc ctgcacatgg ggcgcgtcgc ggcgatcgac acgagcggtc 360
tagacgcgct gtccgagctc aagaaagtcc tggacaaaag aaacatcgag ctggtgcttg 420
ccaaccccgt ggggtc 436

<210> 37807

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-H11

<400> 37807

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ggagccgtgc cgcgctcacc atcgtcatg tccaaaccat cggcgtcccg gccatgtatc 120
aagattgcaa tccgtttccg agcttcgagg aatcgaagat caagagttgg cgaccaagtg 180
atctggttct tcgagttcta tgaggctgga gatcctgagc atctgtttgg tgaaggttgc 240
ctttggtgca atctatgctc aagtaaagaa gaaggcgttg aggcgatct ctaagagttc 300
caggactttt gacgagttcg aggattaggg tagcgaccac ccnactcag ctgcctgtgg 360
tgggtttatt tacgttggct acgtttctat tct 393

<210> 37808

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-F11

<400> 37808

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gtctaactcg atctctggaa gcggctagct gctaacagcc aattaatggc gaagccttcg 120

caggtgctgg tgtcggcgct cgccgcctgg gcgggtggctc tgctgctgct gtgcgccgac 180

gagccagggg gcgccgacgc ggccacggcg tgcgacgccg cgcagctgac cccgtgcgct 240

gacgccatca tcgggagctt cgccgccacc gcggcgctgct gcagcatgct cagggagcag 300

cagccgtgcc tgtgcacgta cgcgcgcgac cccaagctgc agcgctacgt cagc 354

<210> 37809

<211> 414

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-H12

<400> 37809

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ctctgtcgtg acgtgaaatg ccagcgcgca gcttcttgat ccgttcggcg tgatcccgtg 120

gaccggactt ggggttgggg gagggcctct gtctccatgg atgaggcagc agggctgctg 180

ttgcaagaag aggggtggagg tggggaccaa gaagctctcc tccttcact tccacaggat 240

gttggccttt acacaggtga tggatctggt gatgtcaaag ggcgcctgc gttaaagggc 300

actacaggca attggaaagc atgctntttc atcctagggg atgaatgttg tgaaaggctg 360

gcctactacg gaatngcant aaacctagtt acttatttga aagtgaagct tcat 414

<210> 37810

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-D2

<400> 37810

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tcggctgcct cctgtccttc gccttcatcc tcgccgtcgt ttccgcgtc taggcaagcg 180

gaagcaagtg cttcttcggt caggccacat gcattttcac gcctcaacaa tatttacctt 240
 tgctgttagt ggttcatccg gtattctggt tcgtactgaa ctcttcgtg tcatgatatc 300
 attgcactgc aaggaaaaaa taa 323

<210> 37811
 <211> 202
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-030-Q1-K1-D4
 <400> 37811

cccacgcgtc cgtatatatg tacgtaaaga tagacaggca taagacgacg tctctaccta 60
 gctagctata gctgctgaat acatacatat acttgctgat cgagacgctg cttgtgacgt 120
 ccgtccagtg catgtataat ccaacaacag atcgatcgaa gatgattcat aatgcactgg 180
 acggacgcta gttctagatc gc 202

<210> 37812
 <211> 62
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-030-Q1-K1-D5
 <400> 37812

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggggaag 60
 gg 62

<210> 37813
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-030-Q1-K1-D7
 <400> 37813

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 caagcttgcc aaggtgaagg cccaagtctc cgaagtcaaa ggagttatga tggaaaacat 120
 tgagaagggt cttgaccgtg gcgagaagat tgaactgctt gtcgacaaaa ctgaaaatct 180

gcgtttctcag gcacaagatt tcaggcagca gggcaccaag gtgcggcgga agatgtggct 240
 ccaaaacatg aaaatcaagc tgatcgctct gggcatcatc atcgcgctca tctcatcat 300
 catcctgtcg gtgtgccatg gcttcaagtg cggcagcaag tgaagaagg gacttacaga 360
 tggcctgtcc ctgccctgcc cttgcctggc acctgcgaga aggaagagac ttcattgtga 420
 ggtttttttt tttg 434

<210> 37814
 <211> 349
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-030-Q1-K1-D8

<400> 37814
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 aagaggangc cgccgccgcc gccgagcggg ccgcnnggcg agccgcagga cccgaaccac 120
 gcggcgggcg aggagggccg gnaccgcaac agccaggccg gggacgccga cgcggccacg 180
 gcggcgggagg cccggggccg gcacgcgccg gggcacgagg ccgagaccgc cgagcacgac 240
 gaccggcacc cggcgagga gcacgaggcc gcgaccaccg acgggccgga ccacgnggac 300
 cnccaggccg gccgacgacg cgggcacgcc gacaccaacg ccggcgcg 349

<210> 37815
 <211> 389
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-D9

<400> 37815
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 gtcggagagg aatcgcaaag agggcgtct catccgagt aaggaagcca tggagcaca 120
 ggaggctggg tgccaggccc ccgagggacc catcctctgc atcaataact gtggcttctt 180
 cggcagcgcg gcgaccatga acatgtgctc taagtgccac aaggagatga taacgaagca 240
 ggatcaggcc aagctggctg cctcctctat cgacagcatc gtgaacggca gcgacgccgt 300

catggagccg gttgttgctg gcagcaacac ggtagtagct gttgcccag tcgagttgca 360
aacaatgaac gtgcagcagc ccgctgatg 389

<210> 37816
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-E1

<400> 37816

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gagctgctgc tatataagcg cgacceggac ggctctgctt cccagtagt cctctcctcc 120
catccatgct tcggtccacg caccacacca gcccaccag cggcagctcc gcggcgccgg 180
cgtccaactc cgacgccgcg gcgatggctg ggggcggcgc ggcggggggc agcgggcgcg 240
caccgagcgg cgccaagctg ctgcagatcc tcaactgctg ggctcgtgggc agcgggcgacc 300
gcgtgggtggg gctgtcccac ggggttcggca cggaccagtc ggcggtggaac cgcgtgcttc 360
cctacctt 368

<210> 37817
<211> 153
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-E10

<400> 37817

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tgtaataatg gctttgctat gtcgaaatac tgggtttgtt atgaaatatt gggtttggtt 120
tgaccaaacac ggatgctcgg tttgtttgtt ttg 153

<210> 37818
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-E11

<400> 37818

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 gcttcaccgt gacatcaaag ggtggagatg atgacgaatt ctcagagctg tacacattta 180
 aatggactac cttattgata cctnctacca ctttgcctct attgaacttc attggtgtgg 240
 tcgctgggtgt ttccaatgca atcaataatg gatacgagtc atggggcccc ctcttcggga 300
 agctcttctt tgcattttgg gtgattgtcc atctgtatcc cttcctcaaa ggtttggttg 360
 ggaagcaaaa caagacaccg ac 382

<210> 37819
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-E2

<400> 37819

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 cgcgctcggg ctctcagtga cggcatcagc ggtttccctt gccgcctatc gccagtcgca 180
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 agcttgatga gtaccttctc actcgcagct acatcactgg ctaccaagct ttcaaggatg 360
 acctggctgt ctactcttca tttttggttg atccctcatt caagtatatc aatgtag 417

<210> 37820
 <211> 360
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-E3

<400> 37820

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agcgccgcgg cctgcactgt cctcgcgcg cggccccaagg gacggtgtct ccttcgccgg 180
cgcaagcaac acgatacatc aacttcttaa agatcacggc cttcccggag gactgctccc 240
gcgcgccgtg gagtcgtaca ccctggacga gtcgaccggc ctgctggaag cgcggtgtgc 300
ggcgccgtgc tacgccacgt acgacaacgg cgaactggcc tacttcgaca acgtggtgcg 360

<210> 37821

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-E4

<400> 37821

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tatgtgactg tggttaagtat gcgactaagg agctgtagtg tgttcttcca accacatgca 120
ctagcactgt gggtttgctt tgggcagctg caagatttgg aaatttatga atgcgatgat 180
cttgtctact ggccggagaa agtattccaa agcttgattt ccttgccggag gctagagatt 240
tacagttgca agaacctaat tggatacgca gcggcggtgg cgaatgggtcc tgaccaggaa 300
gcaatgagcc agttgctttt gcccaccta gagtctctaa agatattggg gtgtgaa 357

<210> 37822

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-E5

<400> 37822

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ccgcaaaagc tgccatggat tatggctttc acatggccat taaaagtgg aatgatgagg 120
ttgcaaggga aatggaagtg atggttaaag aacatgggat aaattctttc aagtttttca 180
tggcatataa aggctccttg atggtcactg atgacctcct cctgcaaggc ctacggaaat 240
gcaagtcgct tgggtgccctt gctatggttc atgcagagaa tggatgatgct gttgccgagg 300
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<210> 37823

<211> 199
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-030-Q1-K1-E7

 <400> 37823

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 aagggaggaa gaggggcaag aaggaagccg aggcggagac ggcggccacc gagccgaaag 180
 ggaggaagag ggacaagaa 199

<210> 37824
 <211> 207
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-030-Q1-K1-E8

 <400> 37824

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 cacnnngggg ngccaggngg gacaangggg nnacanacna ngaagnaaac cgcaggcnga 120
 anaaggcaac gcaganggcn gcnggcanaa gagancganc aaancagncn gacangaggg 180
 cagacaggaa ggcannnaac cganggg 207

<210> 37825
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-030-Q1-K1-E9

 <400> 37825

 atagatttgg ttttactcaa gggccttcta cgggagcacg agtaccagat ctatcgtgtg 60
 aaatatccgt gttcgtgaca atttcacact ctcctaacat ggtatcactt gtttgaagta 120
 catctaatta ttcactcttg tttgaagtac ttcatttctt tttattcggc atcttagatt 180
 ctgggtgatt ttggttttta tagggcagac ctggtgcagt agtgagagct gtttcaccaa 240

gtcaccaagt catgggttcg aagtaacctc ttcacatttt cgtgggaaaa gcttgccttg 300
 gtttatccct ttccgagacc ccaactcatgt gggagcctcc gacatttgtgt ctaccctttt 360
 tataagccta cactcgtttc aaagcatgca tatactgctt tc 402

<210> 37826

<211> 402

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-D12

<400> 37826

tccccgtatt gttggtgaag gccttgtgat tgacgaatgg aaggaacgaa gagagaggtg 60
 ccttgctcgc cagcagattg aagggtgtga ttcggtgtag acacgaggca gccctgtaaa 120
 ctatgcagaa tgaacatacc gttttatggg cacgcactcc agctgtcaaa tggatttgga 180
 gcttgatttt gcgaagggtc ggatttgag caatcaagca acaatgaggc ttttgtgtat 240
 ttggggttca cgctgaactt ctgtcctggg tttgggtgtg ttagataag cagccactgc 300
 ttggtaatag tacgtccttc agccatgtac tcgtgttgnr gaatgtgggt ctctatgtga 360
 atgtgatgca ttctctagct gctgtcctgt caacattaaa ag 402

<210> 37827

<211> 388

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-F1

<400> 37827

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 gangaagatg aagtggatga gatcgccgag atcagggccc ctcacttcga ggagtcgatg 120
 aagtatgctc ggcgtagtgt cagtgatgct gatatccgca agtaccaggc gtttgcccag 180
 actttgcagc agtcccgggg gtttggcagt gagttccgct tctcggatca gacggcgaca 240
 gctggtgctg ctgctgcagc cgatccgttt gcttctgcgg gtgctgcggc tgatgacgac 300
 catctataca gctagttggg ttgctcaata tcagtcccgt cactcatctg tttaaaactg 360

atcattctta acacgcatgt tatgcaat 388

<210> 37828
<211> 381
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-B5

<400> 37828

ctagaacgcg agcggccgcc ctgggnngaa ggcgacgagg agaactacgg ctacagcgac 60
gnggaagagg agaagggatc nccgaaggcc tcgccggagg ctagcgagga ggagagcaag 120
gatgcgtcgg agtcagaatc cgggtgagtct gatagcctct ccgagtccag cggatcggaa 180
gcttctatga ggaagaagaa agggaggaat aaaagtcgcc gtagtagcaa gcgcagccgg 240
cagcgccacc gtcaccgctc atacagttcg gagattgagg acgaaagcaa gagcgacgat 300
gattctgtgg gctcttatga ttccgaggag tctagggata ggagcaaaaa gaagtcgcgc 360
aggcataata gatctaagaa g 381

<210> 37829
<211> 424
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-B6

<400> 37829

cccacgcgtc cgnacacata atatttctgc tgtttgtttc catcctgagc tccctataat 60
cattactgga tctgaagatg gtacagttcg tatatggcat tcgacaactt acagacttga 120
gaacacacta aactatggcc ttgagagagt ctgggctggt ggatacatga aggggtctag 180
aaggatggtg attggttatg atgaggggac cattatgata aaaatgggcc gtgaagtacc 240
catagcaagt atggataccg gtgggaaaat catttgggcg aaacataatg aaatacaaac 300
tgtaaatatc aagacagtcg gtgcaagttt tgaagccaca gatggagaaa gattaccctt 360
ggctgtaaaa gagttaggaa gctgtgattt gtaccacag agcttggagc ataaccctaa 420
tgga 424

<210> 37830
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-030-Q1-K1-B7

 <400> 37830

cggacgcgng gngctccca acacgccagc gngctatcca gnatgctagg ncgggatata 60
 atcctgtcgt gtccctggga tgggttatatc cccccagctt agtttcagaa ctacagcata 120
 ctccgtacag gttatgctga cctgttccca cacaatgtgc tgtacagttg gtggggctat 180
 gttgtgatta ctactccgaa tgggtgttctg gatcatgagg aagcaatcag gcagaacgtg 240
 ggtgggcaag tccttgggta taccattga ctgacaagta acgtcgctct tagtcctgaa 300
 tgaggcaacg ggttgtgccc atttgggtatt actgtactgn tgttattacc gaacccattc 360
 tggatgcac ttgggagctg tttttagtgc ggcatggcc atgcaagaaa ggaaataaca 420
 tgcca 425

<210> 37831
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-030-Q1-K1-B8

 <400> 37831

ctcttctct gctcttctct gcctgcctga gtcaccgca cctcgctctc tcagcgcgtg 60
 gcctccgtta atccggtaga aaatggccga tgccgaggat atccagcccc tcgtctgcga 120
 caacggaact ggcattggtca aggctgggtt cgccggcgac gacgccccga gggccgtctt 180
 cccagcatc gtggggcgcc cgcgccacac tgggtgcatg gtcgggatgg ggcagaagga 240
 cgcctacgtc ggtgacgtgg cgcagtcctaa gaggggtatc ctgaccctca agtaccctat 300
 cgagcacggg atcgtcagca actgtgacga catggagaag atctggcatc acaccttcta 360
 caacga 366

<210> 37832
 <211> 405

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-030-Q1-K1-B9

 <400> 37832

 cccacgcgtc cgcccacgcg tccgttgacg cgtggggcga aggcgaccct ccttggttcg 60
 ctctttccgc gccgcctgcc ggccgtcgcc gccatggtga agtactcgca ggagccgggc 120
 aaccctacca agtcggctaa ggccatgggc agggatctga ggggtccactt caagaacaca 180
 agggagacag cttttgcgct tcgcaagttg tctttgacca aggctaagcg ataccttgag 240
 gatgttattg ctcaacaagca ggcaattccc ttccggagat actgtggggg tggttggtcgc 300
 accgcgcaag ctaagtcgcg ccaactccaat gggcagggcc gctggcccgt taaatcagcc 360
 aggttcatcc tggatttgcg gaagaatgct gagagtaacg ctgat 405

<210> 37833
 <211> 183
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-030-Q1-K1-C1

 <400> 37833

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 ggctccgact cgccgacgcg ctctccttcc cccccccatt ccccgccagc aacttcgact 120
 tctaccgct ctccctccac gtcgcgctca gacttcttgc cagcggcgcg ggtggcgcca 180
 ctc 183

<210> 37834
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-030-Q1-K1-C10

 <400> 37834

 gaagaaagga atccctccta cgcggtagcg aagagattcg tcgcctcagc cgctgtctg 60
 ctcagatctg cggcggagcc tcgccggcgg cctgcgcccg cggcgccgcc gatccaagat 120

gccttcgtgc gtgcagggct gctgctgctg ctgcctcctg cgccttctcc cccgcgacga 180
 cgcgctctcg tccccctcgg gctgcgcgca ccgnetgaag ccttggtctt ggcgtgcccc 240
 atccccacc tcgtcctnct aacgcttggc ccccgccgct cccaccctg atct 294

<210> 37835

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C11

<400> 37835

cccacgcgtc cgtccacgcg tccgtttacg cgtccgggtt tgttcacgga caaaagcgga 60
 ggaacttcat tacttaggaa aaatttaacc gaacttaacc actggaatta ccttccaaac 120
 attacggccg ggaccatgtg ccacaaggct aattcatggt caagcttaag ggccccaaagt 180
 gtgccttaaa agcagagacc aaaccaagct tggacaccaa ccttcacttt tcttacgggt 240
 ttttaaaacg gaccagggca aaccaatggt tccaaaacat ttgggcaaaa acttgacc 298

<210> 37836

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C12

<400> 37836

cccacgcgtc cgcccacgcg tccgttcacg cgtccgcca cgcgtccgct cgtagagaga 60
 gggaaaaata tccccagacc ctagctcccg atctcgatgg cgaaccctcg cgtcttcttc 120
 gacatgaccg tcggcggcgc cccggcgggc cggatcgtga tggagctgta cgccaacgag 180
 gtgccaaga ccgcggagaa cttccgcgcg ctgtgcacgg gcgaaaaggc cgtgggcaag 240
 tccgggaagc cgctccacta caagggtcc acctccacc gcgtcatccc cgagttcatg 300
 tg 302

<210> 37837

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C2

<400> 37837

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcca cgcgtccgcc cagcgtccg 60
gaccaccatc cagcactgc tagtaagcga gcttagctac tgatcgtcgt caagcactct 120
cgagctcgat ctctcgaagc ggctagctgc tagcagccaa ttaatggcga agccttcgca 180
ggtgctggtg tcggcgctcg ccgcctgggc ggtggtcctg ctgctgctgt gcgccgccgc 240
gccgcggggc gccgacgcgg ccacggcgtg cgacgccgcg cagctgaccc cgtgcgcggg 300
cgccatcatc gggagctcgt cgaccaccgc ggctgctgc aacaagctca gggagcagca 360
gccgtgcctg tgcacgtacg cgcgc 385

<210> 37838

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C3

<400> 37838

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ggcgagcatt ttgcttctgc gatcgatcgg cgcgacgtgc acggccatgg agatgatcga 120
cgcagagctg cgtctgggtc cgcccggcag caacaacaga gacgtcatca acgtcgtgca 180
gccggcggtg gcggcgggcga aacggccgtc gtcgtcgggtg ctggagagcg aggcgtccgg 240
gacggacgac catgaccatg acgacgccgc accgaccttc aaggtgcatg tggtaggggtg 300
gccgccggtg agagtgtacc ggaagaacgc gtttcacgcg gcggcggaag cgaggaagac 360
caagcggggc g 371

<210> 37839

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-C5

<400> 37839

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gtcattcatc tcatgacaat atgctcgccg catctctgtc gggtagttta agcccagttg 120
gatggttggt tgtggttagc gttacattga tcaattcttt gaagcagcat ccaagacgac 180
cagctctagt ttcagaaaaa agagggcctt ccgattccat aaccaggggtg gtccaagatc 240
cagaattggg tcttggtggg taaaaaagg accattttta atatatgtaa aggttggtcac 300
tgaattaact gcttggtgat gttgtaagtt gcaacaatcc gtgaagattc aatgcatgaa 360
ttttcttatt gcaaaaaaaaa aaattttttg gttgtgggtta tttttattaa aaaaaaaagg 420
ggcgg 425

<210> 37840

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C6

<400> 37840

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cctccgcgcc cgaaaggcaa agcctcctcg ctctgcccc gcccctcct cgcggcgtcg 120
gtcaaaccct agcacaccgt acgcgcaggc ccgcccgtc ccattcccca cctccacca 180
tggcggcgct ctccgcgcc ctccgcgcc tgcgcgcgg atccgcgtc gccgcgtccg 240
accccgtaaa ggtctcgtgc gtgaggagca ctggctcagc tcaattcggc tgcgccttc 300
cctacatcag ggcctcctct tcggctgcga ggaacctcga gccgctgagg gcgatagcca 360
cgcaggcgcc ccttgccatg ccacaatatt cgagtgggga gaagacaaag attggcatca 420
acgggttttg ggc 433

<210> 37841

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C7

<400> 37841

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agagcaggag agagaaattc gatagggttc ccatgccctt tccccaccg ccaccacttg 120
ccaagcgaaa gcgggagtgaggaggggag agtcccattt cccaagccc tacacgagag 180
aaagagagag aggggggagc agaggagcac gctacgagag agggaggtcg agggagacag 240
cagaagctgc agcataagcc agaagcatta gaagcggcag ttgtaaccaa gtggcatcag 300
aagatagagc cagccatccg tctatccatc tatctagctt tacaggtata aatcctcgcg 360
cctcggttaag gggccaaggg 380

<210> 37842

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-C9

<400> 37842

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acgcgagcgc gctcagcgac gaccacggtc tgggtgtggc caacgcggag gacctgcggg 120
gccgcgccgc ggagcggatg aaccgcccgc acctccgcca ggcggggctg cgtgcgctcg 180
tgcaagtcgt catgggcgtc aacctcgtga agccgcagag ggtcaccatg agccgctggg 240
acgcgtcctg cctcagctac gagcagatca agtacgcctg catcgacgcc ttcgtctctt 300
tcgaggtcgc ccgcaggctg cttggcggcg cgtactgacg gacgcgggtga ggtgctgtgt 360
tgtttaatcc ttactctatc ctgtcttagt ttgttgtaact ttgccgtgga ctcccgttgc 420
ttaatcctta g 431

<210> 37843

<211> 303

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-D10

<400> 37843

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actccccag gatcccgctg gctgaagaga tcgccgaccg catcgacaag atgctggcgg 120
tgctggacac caacatcctc tgggtgaacc ccgactgcgg cctcaagacc cgcaagtaca 180

cggaggtcaa agccccgctg accaacaatgg tctccgccgc taagctcatc cgcacccagc 240
 tcgccagcgc caagtgagca cctttttttt gcctttttcg tttccgagga gggcgtcgtc 300
 gat 303

<210> 37844
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-030-Q1-K1-B4
 <400> 37844

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 gatccagcca agccagggat cgccatgtcg gactcggagg agcaccactt cgaatcgaag 120
 gccgacgccg gagcgtccaa gacctaccgc cagcaggctg gcaccgtccg taagaacggc 180
 ttcacgtcga tcaagaaccg cccctgcaag gttgtggagg tttctacctc aaagactggt 240
 aagcatggcc atgccaaatg ccactttggt gccatagaca tattcaacgg gaaaaagctc 300
 gaagatattg tgccttcgta acacaactgg gatattccgc atgtgaaccg tactgagtac 360
 ca 362

<210> 37845
 <211> 267
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-029-Q1-K1-H8
 <400> 37845

ccttcagtct ctgggcacca aaatttccgt ttcgattgcc gccgcttttg ccaaggctcag 60
 ggttccgggc cttgttctcg ggttttgcct tcggcccgcc aaaggccccc gccggccccc 120
 caaaggccga cccatcccc aaccttttcg cttccggtta aagcaggcgt cccccaagtg 180
 aaggccttta aaaaagcctt tgcggagttt ggggaagttt tgcttgctca agttgtgacc 240
 gatcgtgtca gtgggttttc taaggga 267

<210> 37846

<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H9

<400> 37846

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ggagctgctg cctgctgtct gactgtcacc gctgccgccg ccacgcccac gctcatcaa 120
gcgaggcaat ggcgtcgcgg ctctgtccgt tggtcgcggc gctgtccta ctctctctcc 180
tgacggcggc gtcgtccgag gcgacgtgc acccgggtgga ctacctggcg ctgcaggcgg 240
tgccggcggc gctgtcggac ctgccgggct cccgcttctt cgcgtcgtgg gacttcacgg 300
gcgacccttg ctgctcgcg ggcgtgtcgt gcacggacga ccgcgcccgc ctggagacgc 360
tgtgcgtgg ggaccgcgc gcgggcgcac cgggccttcg gg 402

<210> 37847
<211> 302
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-A1

<400> 37847

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gggtgtattc caccttgccc gccgagttac aagcattggt tacaagggtc caatctgtgt 120
ttgtcttcc tgttggcctt ccacctgtcc gtgattggga tcaccatata tctcttctac 180
ctggtgctca accatttcat gtgagacat acagatatgc acccgcgttg aagactgaaa 240
tcgagcgcca agtccaagag atgttatctt caagcattat tcaacacagc aacagtgagt 300
tc 302

<210> 37848
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-A11

<400> 37848

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gtccagcgca tatgatgagc agttcaagca gctcatttcg gcaggaaagg atgcggagag 120
cgcttactgg gaactcgtta taaaggatat ccaagatgcg tgcaaacttt ttgagcccat 180
ctacgacgag actgatgggg ctgatgggta tgtctccgta gaggtgtctc ctaggttggc 240
aaatgacact caaggaactg ttgaagcggc aaagtgggta cacaaagtgg tcaaccgccc 300
caatgtctac ataaagatcc cagctactgc agaatgtggt ccttccatcc aggaagttat 360
cgctaattggc attagcgtca acgtcacgct tatnntctca attgcgagat atgaggctgt 420
gattgatgct tacctcga 438

<210> 37849

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-A12

<400> 37849

cccacgcgtc cgcgcaatat aaacgttcac agcgccttacc ttcattgtgct tggggactcc 60
atccagagca tcgggggtgat gatcggcggg gctatcatct ggtacaagcc cgagtggaaa 120
atcatcgatc tgatctgcac cctcatcttc tcgggtggctg tgctgttcac cacgatcagg 180
atgctgcgca acatcctcga ggtcctgatg gagagcacgc cccgtgagat cgacgccacc 240
aggctggaga gggggctctg cgagatggaa ggcggtggtg ccgtccacga gctgcatatc 300
tgggccatca cagtggggaa agtgctactg gcttgccatg tgacgggtcg caaggaagcc 360
gacgcagacg agatccttga caaggtgatt gggtacatca aga 403

<210> 37850

<211> 318

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-A3

<400> 37850

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ggcncgtatt agctctaggc tctagctagc cgcgccactc cttcgtgtag ccatcagcct 120
tctcatcgcc accaatggcc actgccgagg tccagacccc gaccgtcgtg gcggccgagg 180
aagcgcccgt ggtggagacc ccggcgtcgg ccgtcgtgcc cgaggagtct gcccccgccg 240
aggccgaggg cgaagccgag gctgctgctc ctgctgatcc cgaggagctt cccgcggccg 300
agcagcaggg agccggcg 318

<210> 37851
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-A4

<400> 37851

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aaggggtttg ccattggttc agctgctctt gtgtccctgg cgcttttttg tgcctttgtc 120
agcagagctg gagtgaaggt cgtcgacgtc ctctcccca aggttttcat tggtttgatt 180
gttgagacca tgctttccta ctggttctct gccatgacca tgaagagtgt tgggaagcgcc 240
gccctgaaga tggaggagga ggtccgcaag cagttcaaca ccattcctgg gttgatggaa 300
ggaacagcca agcccgacta ctcaacctgt gtgaagatct tcaactgatgc 350

<210> 37852
<211> 204
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-A5

<400> 37852

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cncgcccccg cgacggcggc ggcgggcgga gaaggccagg agcgggacgc gcagaagaag 120
cagcccagcg accagaacgc ccgcgacgcc gcgcgccacn ccgccgagga gaggcagcgc 180
caacaacagc gcggagccaa cgcc 204

<210> 37853

<211> 321
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-030-Q1-K1-A6

 <400> 37853

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 gagggngccc agaccggn gnncaggcc anngaggcnn nngngggaa gngcaaccn 120
 gaggcgccga aggaggncc cgngnccnc aaagccnca acgaaggaga nanccnggac 180
 gaggaaacca nngnggacng gnacaangan gcngncgcag cngggaagga cccccaggnn 240
 gncaagaang ccaagcacgn cgncgagggg cnccagagng ccgagncnga ngaagaaggn 300
 gacgacgagn gaagaagcca c 321

<210> 37854
 <211> 240
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-030-Q1-K1-A7

 <400> 37854

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 gagaacngga cgcaaaagcg ngncangan cgcgnaagca nggcgaaacc anncaaaagg 120
 caaancagag aagaacangg gcagggcnaa gcacgggaac nnggaggag caacgaccgn 180
 gngccgcgag accagcnagg aggaaaggag aaacngngng acaaacaaca ggacgaggag 240

<210> 37855
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-030-Q1-K1-A8

 <400> 37855

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 gcgagngan ggcgaaggac ccgacgcgg nggcgaaagc cncngnggag cacnacc 120

ggacgnncga caccaaccgc gcggcgccgg nggggcccga acaggagacc nncaagcnca 180
 ccnncgaggg ccagaagnnc cagggcccaa ccgccanggc cggcaagcnc ggaacgcnac 240
 ccaaccaggc cggcgagcac cagaacgnca ccgncgacag ccagccgncg gggccccagg 300
 gaggcaagcn cgnncnncgnc nccggagcca accgcaccgg ccccgaggag cacccc 356

<210> 37856
 <211> 371
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-030-Q1-K1-A9

<400> 37856

cccacgcgtc cgcccacgcg tccgttgacg cgtgggcgca tataaagggtg tcgatggaag 60
 gaattctact tttttttgct gatgaagaaa gtgaagtang tgcaatcgat ttccccatta 120
 ttttattact tgcattttga ttatttaaatt tgttattcct attggtgcga ctactagagt 180
 taatattaca ggtaaaaatc ttacgaatac aatagaaata ccattgggtg gtgctggagt 240
 acctatttcg tcacaagggt gtgattcctg ccatgttttt tttttctgca ttggtagttt 300
 cacttccaaa gcttttctag cttcgtggta aggtaaagag nactactct gctatngtac 360
 tagatctcat g 371

<210> 37857
 <211> 325
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-030-Q1-K1-B1

<400> 37857

cagatccaga gnacttttgc aggaactgat gggtattgct ggtagatact cttttaatcg 60
 gttattattt tggtcagctt atggtaaggg tctgatgac tagtggtgca tgcacattag 120
 tcttgctgtt tcaggagggc gcggacacaa gtatatacca ctcatcgac ttcaaattgt 180
 gctcgatgat gagggctatt actcctcggg gctcttttcc atctgtgtca tcatgcaaag 240
 aaattgaagt tacaccttct agatctgtct atcacttgta aattggggct gttgatgctg 300

ctgcaaagat acgatatctg gatac

325

<210> 37858

<211> 393

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-B10

<400> 37858

gttcaagatt cagatgatgt ctggtttaag aaattggaat cttgtataac acctgcgata 60

gaggcagcac agctaaagaa gtttccagag agactatctg ccattcctcc cagaattctg 120

gagggtcagg tcccagacat aacagaagaa gtctatgagg aggataataa gttgtggaag 180

aagcatgtta atacttataa gagggatgaac aagctgatag gttcttcaag gtacaggaat 240

attatggaca tgaatgcagg ccttgggaagt tttgctgcaa ctcttcattc ttccagttcc 300

tgggtaatga acgttgtgcc ctctatatca gaaaggaaca ctctnggtat catatatgag 360

cgaggtctga ttggtatata ccattgattgg tgc 393

<210> 37859

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-030-Q1-K1-B11

<400> 37859

ctcgcccttg ccaaggctga cgccatcgag gaaaccgacc tcgcccagaa gtacgaggtg 60

cagggcttcc ccaccatgct gttcttcattc gatggcgctc ccagaggcta taacggagcc 120

aggaccaagg aagccatcgt cgactggatc aacaagaagc tcggcccagc cgtgcaaaat 180

gtcaccagcg tcgacgaggc ccagagcata ctaccggag atgacaaagc cgtccttgcc 240

ttctctgaca cactatccgg tgctcacagt gatgagcttg ctgctgcttc gaggctggaa 300

gatagcatca acttttatca gacttcgact cctgatgttg ctaagctntt ccatatcgat 360

gcagcagcga agcgtccatc cgtagtgctg ctgaagaaag aggaagagaa gttgaccttc 420

tatgatgggg agtttaa 437

<210> 37860
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-B12

<400> 37860

cggacgcgtg gggcctgaaa gaggatcaga cacccttat cctcatccag gatggtgact 60
gcaagaagtt cttgaagggtt cacgttgagg ctgaccagat cgtctcttgg ttgaaggagt 120
actttgacgg caaattgact ccgttcagga agtctgagcc tattcttgag gtcaacaatg 180
agcctgttaa ggtggttggt gctgacaacg tccacgactt cgtcttcaa tctggcaaaa 240
atgtccttat tgaattctat gccccttgtt ggggacactg caagaagctg gcgcccattc 300
tggacgaggc agccaccact ctccagagcg acgaagaagt cgtgattgc 349

<210> 37861
<211> 393
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-029-Q1-K1-H7

<400> 37861

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gctcctcgcc gatcgatagc atggccgtct tctccgacct ccacaccgcc gacggcctca 120
agtccctcga ggctcacctc gccggcaaaa cctatgtgtc tggtgactcc attactaagg 180
atgacattaa ggtcttcgcc gcggtgccgt cgaagcctgg cgctgagttt cctaatagccg 240
cccgtggta cgagaccgtc tctgcggctg tagcctcaag attccctggt aaggctgttg 300
gtgtaaatct gcctgcggga tcagcttctg cggcagctgc tcctgcggat gaagcttang 360
atgatgatga acttgatctt tttggtgatg aaa 393

<210> 37862
<211> 415
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-030-Q1-K1-B2

<400> 37862

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ggacagcgnc gcaactcngga ggcacggcnn gnnagnngca gnggacgcn gccgnnnan 120
nnnaacccga canngagagn cnacanggan nnggaancca angcnggact agacngaaaa 180
gcacatgngn cngggcgacc ttnttttgac gcacatgatg ccgctgagc ctgcctgaaa 240
gaactcgatg cattgccggg cccgggcatg ggtccaactc ccaactttat ttttttacag 300
tatttgctta ctcttcaatc catccattca tncatccatc catccgtacg tataggccgg 360
cggaacgcg ttccaggtgc cggccgggag gggggacagg ttctgtgagc gcgcg 415

<210> 37863
<211> 180
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-B3

<400> 37863

cggacgcgtg ggcaaacacc attgctgatg gactacgagc ttttcttga gacctgacat 60
ggcctgtggt gcgtgacttg gtggacgatg ttatcggtgt ggatgacact ggcattgtgg 120
acgccatgaa aatgtgctat gagatcctga aagtggctgt tgagcccaat ggcgcaattg 180

<210> 37864
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F9

<400> 37864

gtttcaagat gtctgagaa aacagtgaac ttacaggatc tgcagaacag cttgattgca 60
tctagaggag cttgtaaaag tgcttgcca catatgggga cctggagaac tgaatccgtc 120
tagtgatca ctcatctctg ctctacgttc agagcttgat gttgcccggt ctcatgttag 180
aaagctaatac aaagaaaaga agtctaatac ctatgaaatt gaggacttaa agaagcaact 240
tgcagaagaa atggaatcgt ggaaagtcaa acaaaaggag aagggtgcaa acgctctcca 300

atttataggt tcagagctag acactgagaa gaagtcaagg gaaagag

347

<210> 37865

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G1

<400> 37865

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cacagtcccc agacatggag ttccaagacc gctgccacaa ggtccaggag cccaagttcg 120
actgcctgct cttcgacctc gacgacaccc tgtatccgct gagcgccggg atcgaggcc 180
atgtcaagaa gaacattgaa gattacatgg ttgagaagct gggatttgac gagaccaaga 240
tcgagaacct gggcaatctg ctgtacaaga actacggcac cacgatggct ggtactcagg 300
ccatcggtta cagcttcgat tacgatgagt accacgcctt cgtccatgga aaggtgccgt 360
acgacaacat caagcctgac ccattctca agcacattct caaga 405

<210> 37866

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G10

<400> 37866

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gttgcagtct gactctgtcg aggatgccat ctcccagatt gttggggatg ccaaggagaa 120
gaataggaag ttactgaga ctgtggaact tcagattggt ctgaagaatt atgatccaca 180
gaaggacaag cgtttcagt gctctgttaa gttgccccat atccctcgtc ccaagatgaa 240
ggtgtgcatg cttggtgatg ccagcatgt tgaggaggcc gagaagatgg gacttgacta 300
catggatgtt gaggctctca agaaaatgaa caagaacaag aagcttgta agaggcttgc 360
caagaagtac catgctttct tg 382

<210> 37867

<211> 283

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G11

<400> 37867

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 gcaattcccg ccgccgctcc atgccgtaac gcgacaccat gagggagtgc atttcgatcc 120
 acatcggcca ggccggtatc caggtcggaa acgcgtgctg ggagctgtac tgccttgagc 180
 atggcattca ggctgacggt cagatgcccc gtgacaagac cattggggga ggtgatgatg 240
 ctttcaacac cttcttcagt gagactggtg ctgggaagca cgt 283

<210> 37868
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G12

<400> 37868

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 gtgcgctcga tcatctctga aggtgtacgg gcccgtaaca tatgcccatc tgtctcatct 120
 tatgaaagga gatttgccac aaggaactac atgaccaga gcctttgggg cccttcaatg 180
 tctgttagcg gtggcatcaa tgtcccagtg atgcagacc cgctctgtgc taatgctcct 240
 gctgagaaaag gaggaagaa cttcatgatt gatttcatga tgggcgggtg ttcagctgct 300
 gtttcaaaga ctgctgcttg ctccatcgag cgtgtgaagc tgcttattca gaaccaagat 360
 gagatga 367

<210> 37869
 <211> 281
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G3

<400> 37869

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 ctcgacgagt tcaactgtctc caagcccgcg gggttccccg accaccgca cagaggattc 120

gagaccgtca cccacatggt tgagggggcc atcatccacc aggacttcgc tggtcacaag 180
 ggcaccatca ggacagggga cgtgcagtgg atgacggcgg ggcgaggcat cgtgcactcg 240
 gagatgccgg ctggggacgg cgtgaacgag gccctgcagc t 281

<210> 37870
 <211> 295
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-029-Q1-K1-G4
 <400> 37870

gcagcaagca ggagcagtac aggaggcgcc tagagcccag cgtcggagat ctccgccgcc 60
 gtggagacgc tggccagcgc catgcggcgc gagaaccgcc ggtccaaggc cccgccctcc 120
 tcctctgctt cctccgccct cgctcggggc agggtccttc tcgtcatggc cttectctcc 180
 tgcctcgect ggctctacgt cgccggccgt ttgtggcagg acgcgcagac ccgggcgac 240
 ctgtccggcc tctcgcagaa gagctctacc agcgtcccga aagtgtcttc ggtgg 295

<210> 37871
 <211> 303
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-029-Q1-K1-G5
 <400> 37871

aaggcaggca ggaatgcac tgccatttga acagagcaac ctgcacatta tttatggatg 60
 cctgttcaat ggagggttg gtcattacat gttcgtatat actagaaaaa acagaatatt 120
 agcattaatc catagttaat taaagtatgt taatgcgcct gttctttggg gagtactgta 180
 atcatatgac ttgggactgg gaaattttca cagaaagaat ggatgtgaga tacacaaaaa 240
 ttaatgccgt ggtcaaaaaa agaaaaggcc tgcaactctg gatcaatcct atataaaagg 300
 gcg 303

<210> 37872
 <211> 168
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G6

<400> 37872

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cagacccgag ctatcctgta cggcctcctc tagaagagct ctaccagcgt tccgaaagtg 120
ctctctgtgg aggacaagct tatgaacctc ttgtgcaagg caatttta 168

<210> 37873

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G7

<400> 37873

ggccggaccg acgcattcgt ccgcccaccc gtccaccttt tttaggcact agtctttcaa 60
cctggaccca ttctccagc tcgacgagtt cactgtcttc gagggcgccg tcttccccga 120
ccaccgcac agaggattcg agaccgtcac ccacatgttt gatggggcca tgatccacca 180
ggacttcctt ggtcacaagg gcaccatcag gacaggggac gtgcagtgga tgactgcggg 240
gcgaggcatc gtgcactcgg agatgccggc tgggtgacagc gtgagcgagg gcctgcagct 300
ctggatcaac ctctccttca aggacaagat gatcga 336

<210> 37874

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-G8

<400> 37874

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tggagactct gaccagcgcg gtgcggcgcg agaaccgccg gtccaaggcc ccgccctcct 120
cctctgcttc ctccgccctc gcctcgggca gggctcctct cgtcatggcc ttctctcct 180
gcctcgcttg gctctacgtc gccggccggt tgtggcagga cgcgagacc cgggcgatcc 240
tgtccggcct gctcgagaag agctctacca gcgtcccgaa ggtgctctcg gtggaggaca 300
agcttaggaa cctcgggtgc aaggcgattg gaaagaaaat tg 342

<210> 37875
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-029-Q1-K1-G9

<400> 37875

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 gcaaggggga gtgcagattc agcatggggc tctgttaggg ctgcaatggg gcaccctgaa 120
 cctttcctgg tcaaacatgt cgcaattgga aatgaagatt gcgggaaaaa gttctaccgt 180
 ggtaattacc tcaaattcta caatgctata agagaggcct atccagacat tcagatgatt 240
 tcaaactgtg atggttcatc tagaccactt gaccatnnct gcggattgta tgaattccat 300
 gtctatactg attcctagga cttgttaaca tg 332

<210> 37876
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-029-Q1-K1-H1

<400> 37876

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 agcaatgtga ctatataata ataataaaat taacagaaga ggtacatata gtttcacttt 120
 aattttgaaa tgcaacagca gcttgatgtc tctattgaac cctagaaaca actgaaggag 180
 aaaatactct tccacaagga ataggattct catttgtgct agcagaatca gagttaattg 240
 catcattagt tctaggaacc tgctgggggtg aactttacca ccagaagag gcataaccaa 300
 tttcttagaa agaccaccac tgtaaatctt gtcacatg gtcaatatat ttcttttggga 360
 caagtcattt attataagt 379

<210> 37877
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H11

<400> 37877

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gccttgcta tactgtttgt ggcggataag tcgtcctatc ctagaggag acgccctgga 120
gcctggaatg gctggctttg cagtgcctt ccagcttggtg tggatgtcgt tgctgcacat 180
ctaacagcag tggctgatgc ctagagggtg gttctttagt tcagatctat cctgttttac 240
agtactaggt taatgaacat agtgacagac acaatccaaa tttattacaa aatagtaa 300
aagcaaaaaa ctatatttcg acttacatag catggtagct attttttcaa atagattgcg 360
ccagatcaaa acacaacgac agactatattt tatgttctcc aatgcatg 408

<210> 37878

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H12

<400> 37878

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tgggtatata gctcttcagg gtctgtctgc aggtcacccg cccaacgctc gtggtggagg 120
gcctcgctcc ggggacgcag agctaccgca gcgtggcgca gtaccgcgag gccgtccgcg 180
tgccgggctt cctcgtcgtc ggcgtcgagt ccgccgtcta ctccgccaac tccatgtacc 240
tggtggagcg ggtcatgcgc tacctccgcg acgaggagga gcgcgcgctc aagtccaacc 300
acccttcat ccgatgcgtc gacctcgaca tgggcgcgct ctc 343

<210> 37879

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H2

<400> 37879

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agtatggtga agatgccctt aaggaaggaa tgggcggtgg aggatcccat gttgatccat 120

ttgacatctt ctcatcattt tttggaccct cttttggagg aggtggtgga agcagcaggg 180
gaagaaggca aaggagggga gaagatgtag tccaccact taaagtttct ctggaagatc 240
tttacaatgg cacctcaaag aagctctctc tttcgcgcaa t 281

<210> 37880

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F8

<400> 37880

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cagattgaaa gccaaatat gcctgggctt agcttcaaaa cacacccaaa tatcaataag 120
gatttgttta acagtcagca aattttggga gcaaaagatc caaacaggcc ctttccgagt 180
gggtcaaaatg aaactcctct ggtgaaatgg agaatccagg ggatggatga gtcgtcttta 240
cctctgtcag tcaattgctg gccgtcagta tctggaaatg aaacctattt gaacattgga 300
ttttgaacct tttagaatgt 320

<210> 37881

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H5

<400> 37881

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cgggtgtaggg ggagctgaat gagcttttga tcacttatcg atggccaaaa aaagggagga 120
aacgtgatta catgcttacc acagttgtgc tggaaccgaa tcgccttgac cttgaatgga 180
tattttcatg tttacttcac gtatgataag gttaacagca agaaaaatca tttacgttgc 240
atgagagcac ttaatcatac ctgaagggtt ttgtagatct cgatgctatt tcatatgatg 300
catcaagttt tgtgacgttg acttaagact tattattatc atgattgact tatagtggga 360
cctgtacgct atggc 375

<210> 37882

<211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-029-Q1-K1-H6

 <400> 37882

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 attttgtgaa ggagtacaag gaagattttg aacgtgatct tgaccagag agcgctacta 120
 cttttcctgc aacccttgct gaacttacgg agagattgaa aacttggaag aacattcttc 180
 aaagtaatgt acaggatcgg gtcccagcag tattaaaact ggaggaagaa aaggaaacac 240
 ttagggatgt tcatgttgat gatattgaac tccaaggca gtactttaca gat 293

<210> 37883
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-029-Q1-K1-E1

 <400> 37883

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 ttttgctttt ccttgttaga aatactcagt caagatactg atggatggga gcatcaatca 120
 acagaagaaa tgttatgtta aaagttaaaa ctgtatccat ccaatgaaga taacagattc 180
 gaacatctac ttttctgtgg ggagcaagtc ttcatttttg acacagtcac ggcaaagttt 240
 ccccaaacia aacgactctt ggaacacatt ggcaatgtct atacatctnc cacataacat 300
 acatcttcag atgccaacaa tacaccctc tgcaagtact atgtctgctg gtcttgcaat 360
 cctttgatgg gcaatcataa acaagtttgt agtttgaca 400

<210> 37884
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-029-Q1-K1-E10

 <400> 37884

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agaggccata catggtatatt acaggacttg aagactataa agcacgaggc acacaagcaa 120
gtccttacta cacagtcact cattacacag agtttgctga gaccaaggac actgtgctta 180
ttcgaggaga tgttggtttt accagcaaac taaccgattc agaggcaaag actcttctag 240
agactgctca ctggttctac ctgaatgatg tgagatacag actcgtggag cgcttcaaca 300
aagagactca tgattttgag ttcggggacg tccttaaagt gcttgacatg ccaaccatgt 360
gaccagttt a 371

<210> 37885
<211> 125
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E11

<400> 37885
actctcctaa catgctatca cttctttgaa gtacatctaa ttattcactc ttgcatgaag 60
tacttcattt ctttttattc tgcactcttag attctacatg attattgttc ctataataca 120
gacca 125

<210> 37886
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E12

<400> 37886
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gaagggtcgg tacctttttc ggtagcactt gttactatta ttgcctggga ctatcacgag 120
agagtggctg aacaaccgct cacgaattgc tgattagtga ggctccggac gctttgctga 180
tgtcgacagg tgtatttttt accagggggc taaccgtgag aggggcacat actcttgctg 240
cgactgatga ctgggctta ctggatcatg acatatacag actcctgggtg cgctttaaca 300
aagtgactta tgatgttgaa tgcggtgacg tccttaaagt gcttgacat 349

<210> 37887
<211> 404

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E2

<400> 37887

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ctcatacaac ccatctggcc attgcaaagg tggggccttg acttgttggg tccattacca  180
ccggcccaag ggaacttaag atatgttgta gtggctgtgg aatatttttc caaatggatt  240
gaggcaaagc ctttagccac aataacttcg gccaccattc aaaagttttt ctggaagaat  300
attgtttgtc gtttcggggg accaaaggcc atcactgtgg ataatggaac acagttcgac  360
tccgaagctt tcagagattt ctgtgatcaa attggtacga agat                    404

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<210> 37888
 <211> 222
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E4

<400> 37888

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tgtctgcggg cggcgcgctc gccgtgacgc tgcacatgga ccggagccgt ggacctgacg  180
ctgcctatgg agaacacgct gatccacagc agctccacgc cg                    222

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<210> 37889
 <211> 249
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E5

<400> 37889

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tctttacaca ccacgagata aaactcatgg agcaacctga tgcatactag aaaaaatctg  180

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tatacaaaca tcggaagat agcatat tttt cggcagaact actaccaa at gggttgcatg 240
acacacgac 249

<210> 37890
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E6

<400> 37890

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gtcgtattag ggcacttcgc cggcgacgag taccacaagt ttgcaggcag tggacacttt 180
ctctggtatc agaggggtcaa tgtccaatta ttatgatgac tacgatgaca ttgacgagat 240
ggaggatgat tatgatatgg atgatcccat tgatgacatg gtagacgaac agcaagggat 300
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ttcatcagca gatgcaagaa aaggaaggga cattcaagga atacc 405

<210> 37891
<211> 350
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-029-Q1-K1-E7

<400> 37891

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gttttgcgcc gacattggct tttcataagt gctcaatcgg gatctatccc ctcgagcata 180
gagaaaaagt atcaattttg acaaggggggt ccaatattct ttaagcatgc ctacctcaat 240
ttgccacaag ccagaatgcc atgatatgat cgatgaaatg gctgttgccg gcaaatgact 300
ttcaaggatc aattgtcttt caagaaccac accttgatt ggattacggg 350

<210> 37892

<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E8

<400> 37892

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ctaccgcgag caggettgga ccgtccgtaa gaacggcttc atcgtcatca agaaccgtcc 180
ctgcaagggt gtggagggtt ctaccttcaa gactggtaag catggccacg ccaaagtcca 240
ctttgtcgcc atagacatat tcaatgggaa aaagcttgaa gatattgctc cttcatcaca 300
caactgtgac attccgcatg tgaaccgtac tgagtatcag ctgattgata tttctgagga 360
tggatttgtg agccttctta cttcagatgg caacactaag gatgatctta gactcccaac 420
tgatgag 427

<210> 37893
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E9

<400> 37893

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tgaggagtatt atccagaaag ttccattcc atttctccat gcaagtgtag ctctagtaaa 180
actagcagag atggagtact gtggcactac aagttacttc atcaagctat ttctagacaa 240
gaaatatgct ttgccatacc gtgcacttga tgcagtgtt gccatttca tgcgttttgt 300
tgatgatgag aagatcatgc ctgttatatg gcatcaatca ctgcttgcat ttgtggaaag 360
atacaagaac gag 373

<210> 37894
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F11

<400> 37894

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tccgtggagt tctcaatctt ggaacaggtg tattctccag aaggggctac aatattcaga 120
gtcttgctgt tggcccagct gaaaaagaag gaacttctcg catcactact gttgttcctg 180
gaactgatga atccattgcc aagctagtag atcaactgta caagctcatt gatgtttatg 240
aagttcagga ttttaccac ttaccatttg ctgctagaga gttaatgatc ataaaggctg 300
cggcaaatgc tacagctcga agggatgtct tagatattgc tcagattttt gaggcacaga 360
aagttgacat atcagaccac acaattacac tac 393

<210> 37895

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-029-Q1-K1-F12

<400> 37895

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tatgaaactg aaagaagagg attagggaaa agaactctgg gggatcctca agttacaatg 180
ggtagttcaa tggtagtgga tggctcattt gtatcatcta tgtcctctga taactcagtc 240
gaagaaagca gctttcaaca actgcaggat gctgttagtc aggtatcatg gggtactagt 300
tttctttttg atttctttta atttcccata tagcataaac tctagcctac agcagtacag 360
ccccttcatt ntgggtattgc aaatccatgc tgtgtttgta gtttcttttt ttttcctttg 420
gggttttttg atctctct 438

<210> 37896

<211> 56

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F2

<400> 37896

cccacgcgtc cgagattatt gatttggcgt cgttgaccgg cgcttgcggtt gtcgca 56

<210> 37897
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F3

<400> 37897

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cgtggacgaa ggcgacgaga tgacgccgta cctgctcgcg gcgctgcgcc agtacctgcc 120
gtgcaacgac gccggcgccg aggccgaggc cgaggaggat gaggcggcgg cggccatggc 180
ggcgggcggtg gacggctacg gctgcgacga gtcccgcatg tacgagttca aggtccggcg 240
gtgcgcgcgc gcgcgcagcc acgactggac cgagtgcgcc ttccggggcac ccggggagaa 300
a 301

<210> 37898
<211> 364
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-029-Q1-K1-F4

<400> 37898

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ccgacgcccc ggcttcggtg cggctctccg cagcagcgca ggcggtgctg atccagccct 180
cctccccgcg cttcttcttc tcctcgctgg ccgggaccaa cccggcctcc ccgcatcgcc 240
gcacgcgcat tgccgtcgat ctctccgacg agtcgcgctt cgccgtcaag tgggcccgtgc 300
agaactacct tcgtcccggg gacgcgctcg tgctgctcca cgtgcgcccc acctncgttc 360
tcta 364

<210> 37899
<211> 123
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F5

<400> 37899

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agtcattttac acaattcgat gccaaatctt aacattatct ttcgccatca catgctctga 120

aat 123

<210> 37900

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F6

<400> 37900

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agtaggagggc aaggatcaat ggcgccgccg cggatctcct tcctggagct ctgcctctcc 120

ttcctctgct tcgtggtctt ctactacttg cacatcagat ccaagcggaa gaaccctttc 180

gtgccgctgg actggccgct ggtgggcatg ctcccggggc ttcttgggaa cctttcacca 240

ccttcacgac tgggatc 257

<210> 37901

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D9

<400> 37901

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gcgagctgga gcagcaaggg ggcgttcgag gtgcccgaagg tggaggtcag gttcaccaag 120

ctcttcatcg acggcaagtt cgtcgacgcc gtctccggca agacgttcga gacccgggac 180

cctcgcaccg gcgaggtgat cgccagcatc gcggagggag gcaaggccga cgtcgacctc 240

gccgtcaagg ccgcccggga ggccttcgac aacggggcct ggcccaggat gacgggatac 300

gagcgtggtc ggatcctcca caagtccgcg gacctgatcg acgagcacg 349

<210> 37902
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C2

<400> 37902

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gactgacaat attacctcat gaataaattt ccttactgaa acaggctcta aaaacagaag 120
ttactagagc acgcatccaa ctattggaac cattgattaa gggatcaggt ggagtggagt 180
acctgcagaa gtcttttctg ggtcgctgtg gttccccttc tgatgcgtta gcttctctcc 240
cttcaactgc ccggtggatt ttctctttga aagatgtcgt ggaagaacaa tggaatgaac 300
atgtcagctc ggtatcaatt ctgccagaag cagaccatgt tcagaca 347

<210> 37903
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C3

<400> 37903

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ggggggttcat tagctaccag gaaagttacc aaacttaacc acttgaatta ccttccaaac 120
ataacggcca gcaccatgtg ccacatggc aattcaatgt ccagcttaat ggcaccaggt 180
ggaccttaaa accatagacc aaaccaaact tgaacaccta ccttccccat tcttacgcct 240
tattaaaccg caccaaggca aaccaatgct tccaaaaca 279

<210> 37904
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C4

<400> 37904

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aatgaagga cggcgagct aagcttcctt acctgtttca tgaactttgc tggttccatc 120
gtaagagttt ttaccagcat ccaggagaag actcccttaa gtgtgatcat gggctccgca 180
atcggcatcg tcatgaatgg tacgctcttg ggtcagatag tactgtacca gaaacccgct 240
tcaaagaaac cgaagaaagg agatttagcc accttgagaa acctccaaaa ggtctttccg 300
ggtgggtaa 309

<210> 37905
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C5

<400> 37905

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gtcttgcgc atccggcggg ccaaagctct ctctgctcgc aggtcgcagc catggcgaag 120
aactaccca ccgtagcgc cgagtacagc taggctgtgg acaaggccag gcgcaagctt 180
cgagccctca tcgccgagaa gagctgcacc ccgctcatgc tccgtcttac gtggcactac 240
gcggggg 246

<210> 37906
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C6

<400> 37906

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gatcagaggg gactgctagc aagatttgtg attgatgaag cacatttgtt aagtcaatgg 120
ggacacgatt tccgtccaga ttaccgtggt ctaagatgcc tcaaacagaa ctttcctacg 180
gtcccgatca tggctttaac cgcaacagca accgaatctg ttcgtaagga cgttctttgt 240
gccttgagga tccccaacgc tgtggtactt gaaaagagct tcgacagact gaacctcaac 300
tacgaggtaa tcggcaagac gaaaactttc cagaagcagc tgggcgatct cctgaaagag 360
cgcttcatga atgagtct 378

<210> 37907
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C7

<400> 37907

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gacgtttgac accaaggtgc aggaggcgtt caagcgggtc ggctcgcggg tgacctagat 120
cgagaaaacgc gtcttcacca tgaacgcgga ccctttgctc aagaaccgta acgggccggc 180
cgagttgccc tacacgtgc tctaccccaa cacctgcgac acgaacggcg acgccaccgg 240
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gtacggtcgt cgcactagtt gtttgcgttt ccccgttccg ttccgtgaag tgtggttctc 360
acttgccggg tattgtgcaa atagccaagt actccttacg gaagtcgcta cgtgaggact 420
gttgtaataa 430

<210> 37908
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C8

<400> 37908

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agaagatagc cgaaaagttg aaggaagcaa aggggttgag caagcaagaa gaacaggat 180
gtggaggtaa gtagtttggg atgggtctgg tatgccttca tcaccaatt tacagactac 240
ttatatccga tcaatatggg ccaattacaa tccacgggcc atacggcaca atttcacaat 300
actatgacca ccctgagtga tgcacatgcg tgacaggatg gcggtggcga actggcgaga 360
tgagaaaaag ggaaagcggc aggggattat gagccaggat ggaaccacc 409

<210> 37909
<211> 348
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C9

<400> 37909

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tccttctatt cggctgctgc cgaatagaat ggtggatctg actgatgatg acaatactag 180

gctacctgcc cggaatcatc taccgacct atgtaccact tggctctgac tctcaccagt 240

atgagaggta atactacacg ctgggttaga gcatctgggt gtgccaatcc agtctaaaca 300

cttgattgga aatcactatc tcttttcteta tgcggatcgt gtgacatg 348

<210> 37910

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D1

<400> 37910

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agggatcgta gccgaccggg gtctgcgcgc gggcattcag ttcgccatgg cgcgcctgct 120

ccgcgccgcg gccggcctcg cgctcctcct ggccgtcctt gcccggcgcg cgtcggcgcg 180

cggcgacctg gccagctgg gcgcgcgctt cgagacgcgg cgcggcgcgcg ggcaggacga 240

cgtgccgcgg cggcacggtg ggcgagtga tggagtacct ggacgtagac gcggagggcg 300

aggcggacgt ggcgggcatg gccaccggcg gcggcgcgcg caagcgccgg gtgctgcagg 360

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<210> 37911

<211> 236

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D10

<400> 37911

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tttcaggtgg cgtgggtcgaa agcgatgaca aatattttac caggcttgct aagaatataa 120
 tatctgtata ctaaacatat acattctccc ttcttgataa gaagtctttg aaggtagaaa 180
 atgtagtgca cttcagctgg tctccactg atcctatcat atctctgac gtgcct 236

<210> 37912
 <211> 339
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D11

<400> 37912

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 tctgcgccgt cttgttagca gcagtgggtg cccttgccca tggcgcgaa caggaaacag 180
 cgtcaatggg ggtcggcttg gccaagtgcg ccgactgcac caggaagaac atgaaagctg 240
 atgcggcatt caacggcctt caagtggctg tcaagtgcaa gaacgccgac ggcgtcttcg 300
 agaccaaggc cctcgggtgag gttgacaagt ccggcagct 339

<210> 37913
 <211> 378
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 37913

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 gaagcactaa tggttcagca aaagaaatcc ctaatgacaa gcctgccgtc actaagccta 180
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 cccagctcaa ggctgtgctg gcctcatcaa cccttctctc ccaggacgtg atgaatgctc 300
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 gaagtacctt gcagttgc 378

<210> 37914
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D2

<400> 37914

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gtggagaccg tatacagggg cgcccggaaa ggccgtggtc tggtgattgc tccaaaggac 180
tactccacca agtaccgtta ctaagaaggc aggcattccc cttatgcaat ctattgggga 240
tgtttacacg gacagttagt ccgacagggtg atccctaact gtatcttggc ataccctaata 300
aattcaagtt gctggcttga gtgatgctta tccatggctt ggcatgccat agtgaacatg 360
taaacctgtg atttgagggtg attattcgag tgtaaagaaa ccaggattgc gttcggctat 420
gactat 426
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<210> 37915
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D3

<400> 37915

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tgctgcaaa aaggagtttg tcatggcgctc taagcgcac ctcaaggagc tgaaggacct 180
gcagaaagac cccccacat catgcagtgc aggtcctgct ggtgaggaca tgtttcattg 240
gcaagcaaca attatgggac cacctgacag tccctatgct ggtggtgtct tcttagtgaa 300
cattcatttc ccgccagatt accccttcaa accttcaaag gtttctttca agacaaaggt 360
cttccatcct aatatcaaca gcaatggaag tatatgcctt gacattctca aaga 414
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<210> 37916
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D4

<400> 37916

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caacaccgag gcagggtta aaaagcttga tgagtacctt ctactcgcg gctacatcac 180
tggtaccaa gcttccaagg atgacttggc tgtctacact ttcgtttcgt ctgctccctc 240
gtccaagtat atcaacgtag caaggtgggt taatcacatt gatgcgctcg tgaggctgag 300
cggaattact gcagagggcc aaggtgtgaa ggttgaatcc tcagcagttc cttcagcccc 360
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<210> 37917

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D6

<400> 37917

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tagcacagcc tggagctatt caccatctt gccgcccctc aggatttttag agcaggcgaa 120
tgctctaaaa tggatgatgat ggtgttttct ctttatggtt cac 163

<210> 37918

<211> 252

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D7

<400> 37918

cccacgcgtc cgctgagctc cgcctttgtg tttccagggt ccgggtcgcc ggaccgccgg 60
gtcgtggttg ccaccgcgac caccctggac ctgctcccgg ccaagggcgc caagcgcggg 120
ttttctgacg aggcgcccc ggcatcgact gttgccactg ccggaaggga aaagaaggtg 180
gcagacgagg agttcgacta gaagaaagtg gcagcgaccc cggaaccggg cgacaaagca 240
caagtgggtg ga 252

<210> 37919
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C12

<400> 37919

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gggctttcta gttgaaccgg tgcccctgtt ctgtttttaa aattgcctct atgtaagagg 180
ctgtgcagta taagtactag cccctttgtt ttctgtcgac cgcattgcat ggtttggttc 240
gaacctttcg atgtcgtagt tctatatgat aatacattca agtgattttg ataaaaaaaa 300
aaaatatcca aaaaaaaagg gcgg 324

<210> 37920
<211> 402
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D8

<400> 37920

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acctcgtgga ggtgtcgaag gctaccgagt tattgacaaa cgggctaaca aaacagaagg 120
aaatgctgac catgagaacg ttggtgatga agatgatgac gaagtatggg gggaagatga 180
ggatggaggc aatgacaata atggtgatgg aggatcagat gagccatcgg gcacagaaaa 240
tgaaaatccc agtgataaga atgaattgcc tacggataag agtgatcaac cagggcacia 300
gcagcagaat gggcaatctc tctcaaatga aggacgagac aaatcttcaa gtgatatacc 360
accttgctct actatcttca ttgcaaattt gggacataca tg 402

<210> 37921
<211> 100
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A5

<400> 37921

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ctggttcagt agtgatgctt actttcttgt cgttgttgct 100

<210> 37922

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A6

<400> 37922

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actatcttat atttcattta taaataatga aataatgata accaaggtga ccgattggaa 120
atgattatag ctgagagtta ttggatccag tattattagt agtttggttt acacagcaga 180
aattaagaaa tctgtgcatt tgctgatatg agaacagaag ggtactagct ggttttggtt 240
agattttggg cccctgaata cattgtgatg ttttgcccc tcgattagtg cagtctgctt 300
ggtacg 306

<210> 37923

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A7

<400> 37923

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gaaaactcct ctggagcatc gaccgactct ccacctgagg accgccagct ccttcctccg 120
cctcgacaag cgttggagag atggtgaaga gaagcaagaa gagcaagagc aagcgcgtca 180
cgttgcggca gaagcacaag gtgctgcgca aggtgaagga gcatgacatg gaaaaaatgg 240
ttacaaaggc tgatccaagt aaacggattg tactacttca caacaagata gatcttgttc 300
ctaaggaagc ggtagagaag tggcttacat atctgagaga agaaatgcc acaattgcgt 360
ttaagtgtaa tacccaagag cagcggacca agccgggatg gaaatcttca aaactagata 420
aaacaaa 427

<210> 37924
 <211> 402
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-029-Q1-K1-A8

 <400> 37924

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 gacaaggat ggtacagcaa tgttcctcac actaggcttg cagagtacaa ggggcatcaa 180
 aattgggtta aggtctcagg tgactatcta ttgttccctg ggggtgggac ttaggtcaag 240
 aatgggtggc tccactatat tgatactatt caggacgcac taactgatat tgcattggggc 300
 aaacgaaacc cggatcatatt cgatgctggc tgtagagttg ccagctgtgg aagctacatg 360
 ttgataaag atgcgcttac catgtgtttt gtcctaaaag at 402

<210> 37925
 <211> 438
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-029-Q1-K1-A9

 <400> 37925

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 gggggaaagg ttttgcagta tgtattcttc ttgtcctaatt tttctgtgat ttcacttgtc 120
 aagacagttc actactttgc tgtaaacgag ataagctatc accaggggtt tagttgtgtt 180
 tcttactttc tttctgcaac atctctatct gattagttga aatgacacca gagtgaatta 240
 tgcaagagat atttgtaata cttaagtttc tagtttatgc cctgaattta aattgctcca 300
 tttcaaacat ttatttgatt aaaattgggc tctcgcaatt tatatgtag cttttctgat 360
 aaaaaaagaa aactgtatg tgtttctttc agttgggtga atattttctg tagtgcattg 420
 gagcacgata ccccttgg 438

<210> 37926
 <211> 393

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B1

<400> 37926

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taccatctat gagggcgctt ccacatgaat cagtattaca catctgtatc tgaaacatgt    180
cagacactgt gccgcaaggt taatcccaga tgatgaaaag aaactgcgta caccatgtcc    240
atcagaaata ctagttccaa ttccgacaca tgcgctgggc atcaaggtca acaccgggag    300
tttttattat tattattcca gaatgcgcac ggtaatttga aaatgaaatt gtggtggaaa    360
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<210> 37927
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B11

<400> 37927

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ctcactctcc gctggtcgct cactcttgct tctccaccct tcaactcagtc ttagtctctg    60
attagctcta ggctctagct ggccgcgcca ctcttctgtg tagccatcag ccttctcatc    120
gccaccaatg gccactgccg aggtagctgg atcgatcgac cctagtcttc gattcatata    180
tacatacatg tgcacggatc gtttggatcc gaataatacc tatatatgaa taatggtctc    240
tgtctcatcg atgatcggtc ggtcgatcgc tcatcttcga tgagacgtac agcgatggac    300
gtgcggatca tatatctcct atgttaacaa tggaggacgc taagattaag tgtggcgcta    360
agatggaaga gtacatgctt tgatttttac gcgccgttca cgtgtgca                    408

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<210> 37928
 <211> 363
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B12

<400> 37928

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gctttgaacc attctaacga gagacagttt gaacaatcct ctcaactgtt agatgtactg 120
ccggaacact tgtttgatga gaatttcaac aaggaagttc ccaagcgcg gcaaagggcgc 180
agtcgcggtg gcagagggca tgggcgtggc aaccatcaat ataacaatca ccatcacaat 240
aaccagcacc accagaacaa ccagccgcag tacaataacc atggcaacaa ccaccttggc 300
gggaaccgtg gcagccttca ctctgttga actacaccga ataacctgat aaccaagctt 360
gag 363

<210> 37929
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B3

<400> 37929

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gttgcttacg ctctgtaacg tgagcgtagt gtaccacccg cggcgggccgg agatgagccc 120
gctccaggcc atcagagctg cctgcggcga agaccactac atgtgccgct tccaggaatt 180
tggtgtcgct gaagctgaat ttgctctata tgacatcaag tgggtgttta agaagacatt 240
tggcatgcgc aagccagctc ctattattct gcccaaggac aagagcttct ttgactctct 300
tgattcagat ggaacttgct caccatggct atcagaggaa gatatttctt actatgcaga 360
aaaatttgca aaaacaggct ttactggaag acttaactac tacagggtgca tagacaggag 420
ttgggagctt t 431

<210> 37930
<211> 240
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-029-Q1-K1-B4

<400> 37930

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tgccagttgt ttcaagatga ggcggcaccc tgaagtgaag tgggctcaga ggatcgacaa 120
 gggttacatc actggacagg tacctgatgc caaggacgct cagggcaatt tggaacccca 180
 atggggggcct caccattctc tggcagtggc ggtacaaact tatatgaatt gaaaccagat 240

<210> 37931
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B5

<400> 37931

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 ataaatttaa actaaagaaa cggtaaaaat aaaaaaaaa aaaaaaaaa aaaaaggtct 120
 gccgtttttc agcttccata ctttcgtttc cgtacttgcc acttcatttt tcttttttcg 180
 tgtttcctta tttctgttca ttggcttttc tttttacaac ttcgtgactt ggaaaacctt 240
 gccttttccc atttttatac cccttgcccc cttattcccc ttttgccatc ctcagcttta 300
 tatgccttta ggccttaacc ctttttccct tcccaccttt ttttc 345

<210> 37932
 <211> 312
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B6

<400> 37932

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 atccgatcga tccgcgtggt ttcacacact tagctagcaa gatcgacgct atcacgctac 180
 tgggtgccct ggatctgttg aagttgtgcc tgtaagcttc aaggtggctg ggtgtgtgtg 240
 gcttcaaaat ttgggcggga acgggcgcat cctggaccga gcaaacgcgc attcgatctg 300
 gctgattttt tc 312

<210> 37933
 <211> 429
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B7

<400> 37933

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tggtgcgggc gctcgtgaac ctaagcgtcg tgtaccaccc gcggcggccg gagatgagcc 120
cgctccaggc catcagagct gcctgcggcg aagaccacta catgtgccgc ttccaggaat 180
ttggtgttgc tgaagctgaa tttgctctat atgacatcaa gtgggtgttt aagaagacat 240
ttggcatgcg caagccagct cctcttattc tgcccaagga caagagcttc tttgactctc 300
ttgattcaga tggaacttgt ccaccatggc tatcagagga agatatttct tactatgcag 360
aaaaatttgc aaaaacaggc tttactggag gacttaacta ctacaggtgc atagacagga 420
gttggggagc 429

<210> 37934

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-029-Q1-K1-B8

<400> 37934

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aaatggaacc cttgcaaggg cagctggtcc caatggagca tcaactgggg gaaaagaaag 180
ctcgggagcg gagggagggt ggctctgact attcggggaa ggggtgtctcc aaggctgtga 240
acaatgtgaa ttctgttatt ggacctgctc tgattggcaa ggaccctaca gcacagactg 300
agattgataa cttcatggtt caacaacttg atgggaccaa aaatgagtgg ggatggtgca 360
agcaaaaag 368

<210> 37935

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C10

<400> 37935

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cacgcgcgcg cgcgccgggg cgtgctcccc ctctgtctcg tcgccgcgct cgtggcggcg 180

ttgccggcca cctgcgccgc ggccaggagc aagaagtcgt acacggccat cttcagcttc 240

ggggactcgc tctccgacgc cggcaacctc atcgtcaacg gcacgcccaa ggcgtcacc 300

accgcgcgcc cttctacgg gatga 325

<210> 37936

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-A4

<400> 37936

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ggacttttac gtcgttctgg aacgagctgg ttatcgtgtt gcacgccggc gcaggtgcaa 180

gtcccgcgtt ggcatccagc acagggtgac caaagaagac gccatgaagt ggttccaggc 240

gaagtacgag ggtgtcatcc tcaacaaggc ccaaaacacc tcgtaatcat tgatagtcac 300

caaacgactt gcccttttagc actccagttc aagtataatc tgtgtactat gaattctgtg 360

tttggtggat accaaatgca ctgccagttt tgcgtctgtg ccataattc ccatctgac 420

agactagcag t 431

<210> 37937

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H10

<400> 37937

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gtccggcgag tccggctgcg gcgcggcgtg ctagatcgct accgaccatg gtggtggagg 120

agatcgccga gggggtgaaa aacctcaccg ttaccggaga tgcggcggct tcaggcggag 180
 aggggcagag gaggggcggc ggcggcagca gcaaccgcat ccagggtgtcc aacaccaaga 240
 agccccctctt cttctacgtc aacctcgcca agaggtatat gcaacagcac gacgatgtag 300
 agctatccgc tcttgggatg gccatagcaa cagttgtgac cgtggcagaa attctgaaga 360
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 caag 424

<210> 37938
 <211> 293
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-028-Q1-K1-H11
 <400> 37938

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 cagtccggcc aggacgtccg cacgcagaac gtgatggctt gcggggcggg ggccaacatc 180
 gtcaaatact cgctcggccc cgttgggtctc gacaagatgc tagtggatga tattgggtgat 240
 gttacaatca ctaatgatgg agcaaccata ctttaagatgt tggaagttga gca 293

<210> 37939
 <211> 334
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-028-Q1-K1-H12
 <400> 37939

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 ttcgatcata gagcttgcaa acgaggtgag gaaggtgctc aacagaacaa aggagaccaa 180
 gatcactggg gccaatgctt ccctgaaatc acatgccctt cttgtgcacc tgtccgcgct 240
 tccagaaggc accgttgtgg actcgagata gcgagagcct tggacgttgg acctctactc 300
 ggaatttact tccagctctt gcatgtttgt ggcc 334

<210> 37940
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-028-Q1-K1-H3

 <400> 37940

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cttctattct tgggtctctt ctagatatct tgcttcttaa gaaagatgtg aagcaaaagt  180
cgcgtttatt acaacctctt ttccagattc tatcgaagct tctttctgat caatgggtct  240
cagatattgg tagtcagtat aacgaccaac aagatacctc atctgaaatc cctgatttat  300
ctaactttgt caaagaagtt caacacttgg tactgctggc cctcaaagat attacagata  360
ccctaccatc gggtcaccat gatgcaatgg tcaacagctc cca                               403
  
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<210> 37941
 <211> 283
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-028-Q1-K1-H4

 <400> 37941

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aatgcacata gagttgtgga acaccgaaac atgttgtagg ggggtggggcg gtagcagagg  180
gtggacagta acagtagcgc gccagccct ctacggccta ccctttgaaa gccttggttg  240
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<210> 37942
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-028-Q1-K1-H5

 <400> 37942

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gtatgccagt tttcaatatg tgcattccatt ggtggtatta cgtgacggaa ggggtggtcct 180
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ttcagtggag gtgtgccatt tttctgcagt tgctttgttt ggaggaaatc tactgagctt 300
atagtatatt tttgtcgctg ggcataatth atggcaaact gcattcttac cgacataagc 360
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<210> 37943
<211> 402
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-028-Q1-K1-H6
<400> 37943

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agacattggc gacccaagtg tgaggttcat cacctacaac cacaaggtga acggcaaacg 180
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ctggggccgac accgacgaca ccagcaccaa caactccgac accctgttcg aggtcatcaa 300
gatcgacgag gatggtgtgt acgcgtccg gaacctcggc aacaaccact tctgccacag 360
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<210> 37944
<211> 319
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-028-Q1-K1-H7
<400> 37944

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gcttcggggg ctctgtggcg gacgccgacg tcggggagca ggcggcgcgc ctcgaggcca 120

gcctccaggg cacccgggtgg gccgccgccg tcaacgacgc gcgcagggcc gacccggcct 180
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 tctggatgct cttcgacgcc ggcgaacccg gccaacgacc ccagtatgtg atgcgattcc 300
 aagcgtgctc tcggggcac 319

<210> 37945
 <211> 405
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-028-Q1-K1-H8
 <400> 37945

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 ctgaggcgaa gaagcccaag gccgcggaga cggacgggtgc tggaagcagt ggtgacaagg 180
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 agacctgttt ttgacgtgtt ttagctcttc tggcgtctgc ttattttgag acctcttaat 300
 atttgtgagt gtataatagg agcttatgtc acctctgcgg cttccccccg tgctgatttg 360
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<210> 37946
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-029-Q1-K1-A1
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 cttatgaggc ctatgaagaa aagttcggtc catctagtgg ttcttttgca caaaggaatt 180
 caaaagtgca gaagaaaact atgaacatgc aaccaacaca gccgacaaat gataatgtca 240
 tgaacagaca tcctcaaaca ttgacaagaa gtgcttctta tccttgtagag aacaatgaat 300
 ctgaaagaag aggattaggg aaaagaactc tgggggatcc tcaagttaca atgggtactt 360

caatggtagt ggatggctca tttgtatcat ccatgtcctc tgatatctct ggtgaagaaa 420
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<210> 37947
 <211> 379
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-029-Q1-K1-A10
 <400> 37947

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 gtggcagttg acctcaacaa gagtaccaca agcattgatc atgacctcga cacaattggc 180
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 gaggttggtg ccaagaggat tcgtcttgat agtgaagcat caacatgagc gatttctaca 300
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<210> 37948
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-029-Q1-K1-A11
 <400> 37948

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 aaggaagctg cagacaaaca ttggagtgat ggtgccttgg aggcagacct gcgacgagct 120
 gacttggttg ttaaacgacg tgccatggaa gacgctttca tggcattgaa gtttgttcag 180
 gatatccatg acatgatggt gaacagatta tatgagcagc ttccgaagga cggttcatct 240
 tctcgtacaa attcaacagg gtttattaca cttgagaaga acgggaaggc tcttgaactg 300
 tttcctggtg aagtttctgc tgatcagatt tatgccatag aggaagcata ccagagtatg 360
 gcatctgcct tttctgaagc tgatggtatt gactacacag atccttagga gctttgaatg 420
 ttgtagcaac 430

<210> 37949
 <211> 362
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-029-Q1-K1-A12

 <400> 37949

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 attcccaatt gatctaattc gccggatcgg acagcaactt ttggaatctg ttgcattcat 180
 gcatcgtctt cagctaattc atactgatct gaaaccagag aacatcctcc tcgtttcttc 240
 agattatgtc aagttacctg atcccaagga cggatcattc tcaaggaaac tgccaaaaac 300
 aagtgccatt aaattgattg actttggaag tgcagcatac cattaccagg atcgcactta 360
 ca 362

<210> 37950
 <211> 308
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-029-Q1-K1-A2

 <400> 37950

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 gcagtaccta tggcttctct ggacgccgtg cgaggagacc tcgccctgct gattctgtac 120
 ctgaacaagg ccgaggcgcg ggacaagatc tgccgagcga tccagtacgg gtccaagttc 180
 atcagcaacg gcgagccagg gcctgcgcag aacgtcgaca agtccaccag cctggcccgg 240
 aaagtgttcc ggctctgtaa gttcgtcaac gacctgcacg ctttgatcag cccttctgcc 300
 aaagggac 308

<210> 37951
 <211> 426
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-028-Q1-K1-G9

<400> 37951

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aaggccaaag gatgaagaat ttgtccgaag gtggcagctg gcttgtgaag ggaatatagc 120

tcacgtttgtg gtgatgcccc gtgtcaacat tgacaagcta gactatttcc tgaatgagtt 180

agtggacaaa cgggcgactt ggtaccagga cgggataagc cagccaccct gcattgccag 240

agacgtaggt gttgagaact gtctctgtgg ccttcacaag tagcgagcct tttgctttgc 300

aagtgggttc actcttgagt cgagttaaaa agtgttatgt tgtactgtgt tcattcttga 360

gttgagttaa aaagtgttat gttgtactgt gttcatgcgt tctgcttctg tgtttctcca 420

cagtgt 426

<210> 37952

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F3

<400> 37952

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gggaagctgt cgtccgccac gaagccgaat cccaagccca aggccgcccc gaagaagccc 120

aagaccggcg ctaagaagcc caaggccgct gccaaagccca aagctaagac ccccgccaag 180

gcgaagcccc ccacaaagcc caagcccgcc gcgaagccga aagccgtagt gaaaccgaag 240

acaccgcca agccaaggc caagccagct gccaaaggcga agccaagac cgccggcgct 300

aagccgaagc cacttgctaa gaaggccggc cgccccgcca aggcggcgaa gacgtcggcc 360

aaagacacgc cagggaagaa ggcccctgcc aagaaggccg ctccctcgaa gaaggcggcg 420

accccggtgc ggaaagcgcc gt 442

<210> 37953

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-028-Q1-K1-F4

<400> 37953

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agcggcagga cggcggacga catcgtcgac ttcataaga agagcaagga gaccgcaggc 180

gccgtcacca ccaccaccac ccaggcgcca ccggcatccg agaaggcagc cgccgccgag 240

cccgtcaagg acgagctgtg agcatccaag gtgtggacgg ctgtggctgc gtaagcatgg 300

gaggaaaacc tggcgctaac gtgccttcaa cgctagttt ttgcgggacc agagggagag 360

agagagaggg acggagttag agagagaggg gatctgcgac gtgttntgct ctgcggcggc 420

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<210> 37954

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F5

<400> 37954

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acttgggtatt tgtacttgca gctacaaatc ttccctggga attggatgca gccatgctcc 120

gccggcttga gaagcggatt cttgtaccgc ttccctgaagg tgaagcaagg caagcgatgt 180

ttgaggaact tctgccagca actacctcaa agttagaaat cccgtacgac atactagttg 240

aaaagactga aggttactct gggtcagata ttcgtctcgt gtgcaaagaa gctgccatgc 300

aaccactgag acgtctcatg tcagttcttg aagccagtga cgagttgggt ccggaggaag 360

aactgcctga ggttggccct ctgaaacctg atgatattga acttgcatta aggaacacta 420

ggccgtcagc aca 433

<210> 37955

<211> 433

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-028-Q1-K1-F7

<400> 37955

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 agggacagta gagtggggcc ggggagcaaa gatggagggg aaggaggagg acgtgcgcct 120
 gggcgccaac aagttctcgg agcggcagcc catcggcacg gcggcgcagg gcgccggggc 180
 cggggacgac gacaaggact acaaggagcc cccgccggcg ccgctgttcg agccccggga 240
 gctcaagtcc tggtccttct accgcgcggg catcgccgag ttctctcgcca ccttctcttt 300
 cctctacatc accgtctctc ccgtcatggg cgtctccaag tccacctcca agtgcgccac 360
 cgtcggcatc cagggcatcg cctggtcctt cggagggatg atcttcgcgc tcgtctactg 420
 caccgncggc atc 433

<210> 37956

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F9

<400> 37956

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 ttcaacttca acccggtttg gccgccggcg aagaccccat tttggaaaat ccaaattggaa 180
 cacccttggc ccattaacaa tcagaatccg tttctggggc taacctctta acagggcccc 240
 cttggcaaac ccgggcaaca acattgcgct tcggggcgct ccattggccg ttggaaacct 300
 tgtaacgggg agccccca 319

<210> 37957

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G1

<400> 37957

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 agaaccatt ggtgttgatg atgtcagtag gatgaagtac aaggacaaca tttatgcctc 120
 aactccacag gtcgagacat ctgacatctg gattcagcaa gctagagaga tgccacctat 180

gcagggttccct tcatattaca acataccagg tcaagcaaca ccagggtgctt ttgtgccaaa 240
tccagcaaatt gcattctttca atgctacage tcaatcctct catgtgcagt tcccaggctt 300
gtaccatcct cagcaacctc cctctattgt aagtccgcac cccatggtgc atcaacaggt 360
gccatcggcc attggtccca atgttgggggt tgggggtggca gcttcaggcc cgcaagttgg 420
agcttatcag caaccacagc ttggccatat gaattggaga cccagcttt 469

<210> 37958
<211> 391
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G10

<400> 37958

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ctgcgccaag tccaataat cccgcagccc ggccgcatgg cggtagagcaa caacatcacg 120
gcatgcatca acttcctggt gcttctctgc accatcccca tcgccgcgac ggggctgtgg 180
ctggcctcga ggcacggcag cgaggactgc gccaggctgg cccgctggcc cgtcgccgtg 240
ctgggcgcgc tctcctgct ggtcgcgctg gcgggtttcg cgggcgccta ctggaaccgc 300
aggggcctgc tcgcctgcta cctcttcgcg atggccgccc tcatcacgtt cctcctcgcc 360
ttcctcgtct tcgccttcgc cgtcgcgcac g 391

<210> 37959
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-028-Q1-K1-G11

<400> 37959

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cgctgcacta ccctgccttg gcaggatc gtacgtgagc ccggccgagc gagagcgagg 120
gagaggcatg gctgctccga agctcgcgac gctggcgctg gccgtgctcc tggcggcgac 180
cgtggtggct cccccggccg cggtgcgcgc ggcgatgtcg tgttccaccg tgtacagcac 240

gctgatgccg tgccctgccgt tcgtccagat gggcgggggcc atgccgnccc agccgtgctg 300
 cggcgggcatc cgcagcctgc tgcagcaggc caacaacacc cccgaccggc gcaccatctg 360
 cggtctgctc aagaacgtcg ccaacggcgc caacggggagc ggcacctaca 410

<210> 37960
 <211> 81
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G12

<400> 37960

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 taagcatgac gatttgagaa c 81

<210> 37961
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G2

<400> 37961

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 aaaaagaatt ctttgcttct atggttgtgg atgctgtcct tgccattggc aatgatgaca 180
 ggcttaatct tattgggatt aaaaaggttc ctggaggtag catgagagac tcttttttgg 240
 tgaatggtgt tgcattcaag aagacgtttt catatgcagg atttgagcaa caaccaaaga 300
 agtcccttaa tcaaagatt cttttgttaa acattgaact agaattgaaa tctgagaagg 360
 aaaatgcaga gatcagattg tctgaccctc tgcaatacca atcaattgtt gatgctgagt 420
 ggaacattat ttatgacaaa ctg 443

<210> 37962
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G3

<400> 37962

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aaagggtgaca tttccaccct tgagtgccct tctacaggag gaagggtgcc tatcaccaat 180

ggtactgcac tctgggtcaag aacaatgccg tactattcaa aagggtgcttt ggtcacagaa 240

gttactcccc agaagacaat aactcccaag gttgttagaa acagcaagct agaaaaccta 300

agctatgcaa aagaaagggg ggaacttcaa gtggatagaa agcaaaagtc aagtcttttt 360

aacctgtcct cgaagaaaac attgacttcc aacgttagag atgaccaagg tcttgaaatg 420

ttcaaaa 427

<210> 37963

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G4

<400> 37963

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ctggttctgt tatcatcatt attttctctgg tgtggggcaa tcatgtcaga gagcgagtta 120

gcagtaataa aaccagaggc attgaaaact tatactctggc ttcagtgcct tgatggctcc 180

atacaacaag tggaggaaga agttgccatg ttctgcccta tgatatgtcg ggagataatg 240

aaaaatggga cagggtcatc taagaatcat gctatagttc taccgcaaag agttaatccg 300

gcaagtttga gtttgattct tgattattgt cggtttcatc aggtccctgg gcgctcaaac 360

aaggagcgga agtcattcga tgaaaagttt gtcaggatag acacagaaaa actgtgtaag 420

ttggcttctg catcccttgg tc 442

<210> 37964

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G5

<400> 37964

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 ccccgttcga aggtgcggca gccggcaggc gagcgatttc attcgacatg aatcccagat 120
 acgactacct tttcaaactt ctgcttattg gtgattctgg tgttgggaaa tcatgcttgc 180
 ttctcagatt tgcagacgat tcttatttgg acagctatat cagcacaatt ggggttgatt 240
 tcaaaattcg cacagtggag caagatggga agaccataaa acttcaaatt tgggatactg 300
 ctgggcaaga gcgcttcagg acaatcacta gcagctacta ccgcggagct catggaatca 360
 ttattgtata tgacgtgaca gaccaagaaa gcttcaataa tgtgaagcaa tggttgaacg 420
 agatagaccg ttatgc 436

<210> 37965

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G6

<400> 37965

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 aaaaaaaaaa aaaaaaaaaa aaaaacaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa acgccgacca cttaaaagaa cccaacataa cttacatggc 180
 cccacaaaac aaaaacattc aaaaagttcc cccaaaatca actaaaatac cccagtagaa 240
 aaaacataaa aactcaaaaa ccctaacaa tcacaaaata aacctaccgc aaagaaatcc 300
 ccattcaaca aggagcc 317

<210> 37966

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-G7

<400> 37966

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 agcctaaaag tatctgactt ccaaggcgta tctctttcaa ctattggcag aagtactctc 180

gagattaatc ctgacctgcc tgaggctaag aatctgaagt cctgggatga ctctgaaggc 240
aaagatactt cactggcacc aatcagtgca gaagtgggtg ccacacgcgc tgggtgggttc 300
aagtccatgt attctgatag agttttttctg tctcacatca ccagtgatcc tgctatgggc 360
caggaaaagc ctgtttttctt cagtctgtac gccatcataa gccacatcaa gcctgatcag 420
aatatgtggg accgtgc 437

<210> 37967
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F2

<400> 37967

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cctggcgggca atgagtatgc gaatgaggtc atcatctacc ttgagacgct cacatcaacg 180
gcacagcaga tccttccccct tctgtgcta caccgtgtac ttgtggcagt gcttgcccac 240
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gcggtcactg gtatagatac tgatctcaaa atgtttgaga cgtttgacaga gggcatgtct 360
agcctgtttg tggactcagg tcaagaatct gcaaaaaatg aaatgaaggc tgcactagtg 420
gaagcaaggc agctagtga tc 442

<210> 37968
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D7

<400> 37968

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ctcacctacc gaaagcgtca cagctacgcg acaaaatcca atcagaccgc ggtcgtgaag 180
acccaggtg ggaagcttgt gtaccaatac accaagaaga gggcgagcgg tcccaagtgc 240

cccgtcaccg ggaagaagat ccaggggata cccacttga gacctgccga gtacaagaag 300
 tccaggttgt ctaggaacca caggactgtt aaccgtcctt atggtggagt actctctgga 360
 attgctgtta gggagagaat tatccgtgct ttcttgggtg aggagcagaa gattgtcaag 420
 aaggtcctga aaatacagaa a 441

<210> 37969

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D8

<400> 37969

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 catcatagag aagcccagag actattctgt ctgccctag gtgcacgaca acaggagcag 120
 tgtgttcttg tgatgcaatt agtaagcata gtagtgttcc tcttgttgag aactgcacca 180
 ctccgactgt agcagtgtgc acaactttga agcgcgtagc tgagaaaagt gtttcagagc 240
 tagttggaag tgaaaggctg gggagcaaca acagtgcgga attgttggag agtatggaaa 300
 aggaggatgt ccttgcgtgaa aatgttcgtt ttggcgggaa tggagttgcy caaggtggcc 360
 ttccagaaga gttagaggta tgaacaagtg tacattgtgg aagtcgtcac tgaggcatgg 420
 tcttgaact 429

<210> 37970

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D9

<400> 37970

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 aatgaattag cagaacccgg gccaccccc cttcctcgga gtcggagcga gtcgaggaac 120
 ggctcgtctg cctctcccgt tctccttctt ctctctccca gaagatctga tccatcatcg 180
 aggactcgcc gggaagaatc aaggatatat agataataaa caaacaagg ttcctccaga 240
 gccagagga gggaagtcac cggccgtcgg cggggaggag atgtcggacg gcgcgggctc 300

ccggacgggc gtcgctggcg cgctgggcct ctcggtcacc tcgtcggtag ccatcgatcat 360
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 gc 422

<210> 37971
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-028-Q1-K1-E1
 <400> 37971

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 cctgcacccat ggcgatctcc tccacggcga tggccggcac ccccatcaag gtgggttccct 120
 tcggcgaggg ccgcatcacc atgcgcaaga ccgtgggcaa gcccaaggtag gcggcggtccg 180
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 cgagctacct caccggcgag ttccccggcg actacggctg ggacaccgnc gggctgtccg 300
 ccgaccccga gacattcgcc aagaaccgag agctggaagt gatccactcc cgctgggcca 360
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 gcgaggccgt c 431

<210> 37972
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-028-Q1-K1-E10
 <400> 37972

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 tggcctcacg catacgcggt ccggttagcc gaggagggga acagcagaaa tgcgaactcg 180
 tacagcgtga gaccaaccga gatcgaaaca gtcgatattc ctgggcacgg tgcgatcatc 240
 accctaagag agactctaaa cgatgtggag tctggcagtg ccaggagatt gtgagatggg 300
 tctgcaggtg tggagattga tgtctcagat accatgggag ttgcttgcac atgtgtacag 360

gtagatctat tggagagctg ttgact

386

<210> 37973

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E11

<400> 37973

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gaatgatacc atcgtagttt tagtagtcct tcgtggcctt cagtttgtct tcaaagagtt 120

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gcctgctagg ctacaagcag ggttcact 208

<210> 37974

<211> 306

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-028-Q1-K1-E12

<400> 37974

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gacgccaaag ccggtggcct tctcctcgtg cctgccttc ctctggtgta tctgtggtgg 180

cgtcgccagg gcgacggcgc cgcggacgcg gacacggaag agcggccggt cgtgagcgt 240

gtggcgcggt tcgcggtgca ngtggaggtg ggcgtggggt tgagcccgcg ggagaagcgt 300

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<210> 37975

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E2

<400> 37975

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 ctgacgagct ggatgaccag ctcgagggtc catgccgggt gatccgagca gtgatctgag 180
 cccagtctctg gatccaagcg ggaatccata cttgatctcc tacatcagct acgcgatcga 240
 tcgatccacc gatagatgct gcggcctcag ccacaatgtg agacatagct gtggatatac 300
 ctgctgctat gcgaaatggg catgcataga ggacttctat gagacatact atgatagaga 360
 tgatgggtcat atagatggtc atataggagg tcttgatgga catggtgatg gtcatgggtgc 420
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<210> 37976

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E4

<400> 37976

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 aatggccggg ccgaggatcg atttccgaca gcaggaaggg tgcagcatgt aaagggggaa 180
 cagatgagat catgtttggg ttggtcccc gttgtatatg tagttatgta tcagccagtc 240
 ctttgtttgt aaattaccag tatttagaag taataagaaa atggggggtt acgtgtacgt 300
 ttctgtgct ctgtcatctg aagcaataaa actggttagc aagaccggaa gagcgac 357

<210> 37977

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E5

<400> 37977

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 ggggctgatg aaacttgatg ttcaattttc ctttctaag gaaaatgttc caaacaaga 180

tcccaacaat ggaacactgg tggtatctct tattgactct tccatctcca gccatgatct 240
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caataagaaa tttgtagaat tctatgatat cagagcagca caagaagcac tgaatgacct 360
caacaagggt gaaatatcat gtcacaaaat caaagttgag catagctttt ctggaggagc 420
aggatcttgc ttcgcagagc aa 442

<210> 37978
<211> 361
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-028-Q1-K1-E6

<400> 37978

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gatatctaata gtctgcgtcc aggttgctga aactggtcag agtgagtcac tctactgtaa 120
taactgtaag ctctcgatga gccgattatt aagggtgctgc ccaacatgcc cgtttaagct 180
gtgcctaagt tgctgtcaga agatacgtga aggaacatg tcggacaaca ccctgaaga 240
taaattcaag aatcggttga ttcaacanga gtctgtccat gaggatggca gtattacttg 300
cccttcgatt gagctgggtg gatgtgggtga cgccatgctg aacctaatat attcatctcc 360
a 361

<210> 37979
<211> 90
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E7

<400> 37979

cccacgcgtc cgattcattt gttaagaagt taacgaggta aaggatgtaa atgatgccgg 60
gggctttgct gaatatgaaa gttgaacagt 90

<210> 37980
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E8

<400> 37980

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agcttatcca aacgatcaca tcatctacct tcacacactc acatcaacct cacatcaaat 120
ccttccccctt cctttttctac acctttctact tgtaacaccc ctccccca tcaacttaaac 180
gatcatcaaa ctctttctaca actatccact aaagctattc aataccaatc ccgtcactgg 240
catatatact aatctcaaaa 260

<210> 37981

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-E9

<400> 37981

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cggaacgca gaggcgggag cgacgggaag gtcgggagag aagacatgag gaagccaaaa 120
ggagaacgag ttcggaaggg agcggatggc aatggctctg gtccagctat tgctggcgct 180
cctaatcgtc tctgcaccg cgcaatcgcc gtacgcgtcg aaagctccta cgatcagcgc 240
ctcggcgccg gggggctctg tcgcgccacc gacaacggcg gtctcggcgc cgcaggcgtc 300
tgcacagccg ccgacaacag tcgccgctgt ctgggcctca agcctcggcc gtagcaccaa 360
caaaagcagc cttggcgcca catgcctatg ctgcgccgcc aactacagc 409

<210> 37982

<211> 335

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-028-Q1-K1-F1

<400> 37982

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ggcgccctaca acgacccgag ctaggacatc gtggagatga agtcggagga ggcctaccgg 120

ctggtgctgc accagtggt ccgagggctg gagcgcaacg tggaccccg caagtcgcg 180
 gtgttcttcg tgaccgcttc tccgacgcac acggactgca gagcgtgggg cgacgacgac 240
 acggaggggca ggagcaactg ttacaaccag acgtcgtega tcagcgccgn ctcgtectac 300
 cgtggcgga cgagccatga gatgctgcgc gcaac 335

<210> 37983

<211> 127

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F10

<400> 37983

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 tgcactt 127

<210> 37984

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F11

<400> 37984

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 ccgtcatggt gtcagcgggg ctgcacgtct ccggcggcca catcaaccg gccgtgacgc 180
 tgggcctcgc cgccacgggc cgcacacgc tgttcgcctc cgcgctctac gtggccgccc 240
 agctgctcgg ctccacgctc gctgcctcc tctcgtctt cctcgcagtt gccgacagcg 300
 gcgtgcccg gcacgcgctg ggcgcggcg tggcgcgct ccggggcgct ctcatggagg 360
 ccgtgctcac cttctcgtg ctcttcgcgg tctacgccac cgtcgtcgac ccgcgcccgc 420
 ccgtccgc 428

<210> 37985

<211> 306

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-F12

<400> 37985

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atggtttag tagcatatgctct tgttgcaata aaaaaaatgt ggcagttgtt tggctggtga 120
ctgcctatta tgagcctgcg gcaataaatg ttcagcaa atgcggagtaa acattgagag 180
ctccagaaca tggagagaaa gtgtgtattg tatatttgcg ttgttcctgt aaagcatgtt 240
tagtcaaact cgaatattgt ctataacacc gagtaa atctcaggcgaaa catgggcgag 300
ctttct 306

<210> 37986

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D6

<400> 37986

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tttttttttt tttttttccg gcatctttta agactttaga taacagcttc acacattttt 120
caaatccaca aaagaactgg aagtcaaaaa aagaaaagaa tgggtactgct gatggacaga 180
atgtgtgcaa acctatttcc tgcagcat ttacatattaca aagattacaa aaatcaccat 240
acatcaagtt acgctcaaaa aacaatgcat gacacagcta agaaaaaaca aatagagact 300
actaacatct actggatgct aagctgcaa tgaggtactg tgccggcagg aagaacaatt 360
gaacagatgg tgcgctgaat ccaacctaat gcttgacaga atatccttta cagccaagcc 420
ggcaaccaag acgctgagtt 440

<210> 37987

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C11

<400> 37987

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 agttcgtttt acaaaagccc ctgttaaccc gaaggctaac agggaaaaga tgacacaaat 120
 catgtttgaa accttcagtg ttctgctat gtatggtgct attcaagctg tgctttccct 180
 atatgctagt ggccgtacca ctggcatcgt cctggattct ggagaatggg gtcagtcaca 240
 ctgtcccaat ctatgaaagc tacgcccttc cacatgccat tcttcgtctc gatcttgctg 300
 gcagggacct cactgattcc ctcatgaaga tcctcaccga gaggggctac tcttttataa 360
 acactgccga gcgggaaaat tgtccgtgac atcaatgaaa agcttgcata tgt 413

<210> 37988

<211> 156

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C2

<400> 37988

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 gtggcctctg aacctcgaa ccggttgata gttgttgttt tcctagctgt gtcgggctcg 120
 gtgcagcatg ctctaattgt tgattacctc aagaat 156

<210> 37989

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C3

<400> 37989

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 gcctagctac ctcaccttac cttacgcagg cacactgcac acacacccat ggtgggtggcg 180
 gcgatgcggc ggccgtgcgc tgtgccagcg ctgctgggtg cggcggcgac agcgacgcta 240
 gtgcttctgc tgctgctgac accgtcgagc gcg 273

<210> 37990

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C4

<400> 37990

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atgtttctact tatcacaaac aagcagagca atattcttga agatctggac acattgaggc 120
tcctctccaa gcttgtgcct gaatactccc cttccttgga tgaggacggt atttgtaaaa 180
cagcatttga gattatattt gctttcgatg aagccatctc tcttggaac aaggaaaatg 240
tgacagtgc acaagttaaa caatattgtg agatggagag ccatgaagag aaggcacaca 300
agctgatgat gcaagccaaa atcaacgaaa ccaaggatct catgaagaag agggctaata 360
aacttgacaa aatgaggatg gaaagaggca agcttgacaa aggaggatac tcatcaatat 420
ctgggccacg cgtgattgaa aa 442

<210> 37991

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C6

<400> 37991

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ccgtgcctga tcctttctat gttgtatatg ttctgggttt ctgctacact ccatctcttc 120
agctctggtc aagttgtccg aaatgattgc aatactgatt gttgttcata tgatctgaag 180
ctgggaaaag taaattgtga caactgctgt gggtagagca tccattacac cctcatatc 240
agcattgcca ttctatttca cttatttggg tgctactggg cgactcaatt cattctcgca 300
tgctcttcaa ctgtggttgc gggatcagtt gcttcatact actgggcccc tggtgaaata 360
tcacatgata taccatttct cactgtagtc tcttcactga agcgactgat gc 412

<210> 37992

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C7

<400> 37992

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tctcttatgg aacttgctg ctcttatagt ttcctttttg aagaggatta aaacttacat 180

caaattacgg aaggcactta gttcactcga cggagcactt ccagatgcta cttatgatga 240

aatttgtgca tatgatgatg agtgtgccat ctgcagggga ccgatgggtc gagctaaaaa 300

gttgtcctgc aaccatctat ttcactctagc ttgtttacga tcatggttgg atcaaggatt 360

aatggaaggt tactcctgcc caacttgctg gagaccgctc gtattgtcat ctgaagggca 420

aacaaggtct ccgatt 436

<210> 37993

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C8

<400> 37993

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tgtageccat tgtatccctc taccgggtga ccggagctag actaacaagt cttcggcgcc 180

accggttgcc gatttgggtt ggcggtacaa ggagccaccg tgctaacctc agtttgtatg 240

cttgcttttt cttgttcgca cttcgtgtct tcagctttcc ttcattttgt tcttgtccac 300

tcggttttcg tatggatctt tgattgtctg aggctctgga tctatgaact aggagaaatg 360

cgataatata ttgcaaatga tttagagttt caggcttaat cgcgagcttg gtatatgatt 420

aatttat 427

<210> 37994

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C9

<400> 37994

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 ccgagtcatc agtgttgcac tcaagaccca aatcagcagt aggaacgcca gcatatattg 120
 cacctgaggt gctatcccg cgcgagtatg atggaaagct tgcagacgta tggtcctgtg 180
 ggggtgactct ttacgtcatg cttgtgggag cataccatt tgaagaccca gatgacccca 240
 agaatatacg caagaccatt cagcaaataa tgcaagtgc atacaagata ccagatcatg 300
 tccacatatac tacggaatgc cagcaactta ttgcccgat ctttgttgcc aatccaatga 360
 ggagaatcac aatgaaggaa ataaagagcc atccatgggt tttgaagaac ctaccacggg 420
 aactcacgga gactgcacaa 440

<210> 37995

<211> 435

<212> DNA

<213> Zea mays

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<400> 37995

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 tgggtgaaggg gagaaattcg tgagatctgt tccggatcag gcgtgagagc tcgggaatca 180
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 caaaaagtct agcagtagtc gttctatgat gtatgaagct ccccttggct acagcattga 300
 ggacgttcga cctgccggaa gcgtgaaaaa attccagtct ggtgcttact ccaactgcgc 360
 gaaagaacca ttctgatatt ccttttggct tctcaatct agtagtttaa gatttctttt 420
 ctgacacttt gattc 435

<210> 37996

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D10

<400> 37996

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 ccgagctcgt cgcgccgctg gacggaccac ggaacgggca gctcggtcag ctccctgctc 240
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 accgcgccgc gtcggtccga gctctcaccg gtcacgcgcc tccctgctcc caggtgccag 360
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<210> 37997

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D11

<400> 37997

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 cgatgctggg ttggcttatt gctgcaccaa ttgtactggc cgtgctgtac gccgtttcgt 180
 tcccttgttt caaggtcctg gtcaacaggc ttgggtggtat tcttcgagc ccaggagccc 240
 caatcaaagc ggtgtagcca gtgcctggcc ggatcctctg cagttacatc cgtggacata 300
 gctgcagatg tgcgctgac atccggggcc ggccgtggcg tggcccaaaa cgtcagtgc 360
 tcgacgtaat tgcagaggaa acggtttcag ccagtgaggc atgctgaatg cccttgaat 420
 tgtgtgc 427

<210> 37998

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D12

<400> 37998

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 ttacatcact gtacagttac ctgatgcca ggacgctaag gtcaatttgg aaccagatgg 180

tgtcttcaca ttctctggca gtgttggtac aaacttatat gaattgaaac tagatctgaa 240
 tgacaaagta aacgttgagg ctagcaaaat aagtgtgggt gtcagggtcca tattctgtat 300
 tgtagaaaaa gctgaggcca aatggtggaa gaaacttggt cgagatgatc aaagggcacc 360
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 caacttggga tggatggac 439

<210> 37999
 <211> 334
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-028-Q1-K1-D3
 <400> 37999

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 cggtcatggt atcgctcgtc aaggtggcca tggacggcgg catgaaaccg ctcgatgatc 180
 tcacctgca gcagctcacc gncgccgtct tctcgcgcc aatcgcatc ttcaaggaga 240
 ggaagtcgag gccaaagctg acgctggaga tcttcgccta catcttcgtc agtgcggcgc 300
 tcggggcagc tcttcgtcag tacatgatct tcgt 334

<210> 38000
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-028-Q1-K1-D4
 <400> 38000

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 gagcgagcgc accgcggatc tccctcccg ccccgccgcg cgcaccggtg aagacgacga 180
 gccctcgtg aatggtggga gcccgcgca cgtccgtcgc ctgcgagccg cagccggagg 240
 aggctcctt ccgcggcttc gggtactgca tgcagggtg gtaccaccgc tgcacgggtc 300

tgcacccctg aaccccgccg ncacttgctt ctttgatttg atttcattcg gttcgttcgg 360
 tgccccctcc gtccctggatc tgttgccgca gagcgccgca gcgcgcgaga ttccgccccct 420
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<210> 38001

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-D5

<400> 38001

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 gtactatcat gaccatctct aaggatagag ttaagccatc tccgttgccc gacagttgga 180
 agctgaagga gatctttgct acgggcatcg tgcttggaag ctaccttgct ctgatgactg 240
 tcattttctt ctgggctatg cacaagaccg atttcttctc ggacaaattc ggtgtgaggt 300
 cgatcaagga cagcgagcat gagatgatgt ccgccttgta cttcaagtg agtatcgtga 360
 gccaggctct gatcttcgtc acccgttccc gtaacttgct cttcgtggag cgccctgggc 420
 tgctccttgt caccgcgttc c 441

<210> 38002

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C10

<400> 38002

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 tacattgcac ccaaggtgct atcacctccc gactatgata caaagcttcc atacaaatga 180
 ccctgtcttg agactcttca catcatgctt ataacatcat acccatttta ataccagct 240
 aaccccacta atatacacat caccattcac caaataatgc aagagcaata caagatacca 300
 caacatgtgc acatatcta 319

<210> 38003
 <211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-028-Q1-K1-A4

 <400> 38003

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 gtgcgaggag acgatgccct atgacgtgaa catcgaagcg gagatgcgga ggcggcagca 180
 gcagcaccag gaggcctacg acgaggatga ggacatgccg ggccggcgcg agagggtgca 240
 gtgcgcccag cagtaggcag cagcttggtg gcagtgataa aatattcgac ggcggcgcaa 300
 aaatttgtgc gactactgtt aggtccaacc gtccaagttt acacgcgcgt attaattgtga 360
 tgaccatact tctctt 376

<210> 38004
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-028-Q1-K1-A6

 <400> 38004

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 actaggtggc gaaaaaggag cagcgtatga ccgaatcggt cttaacgcgg ctatggctga 180
 ccacttacta ggctgcagcg gagctgagga tatcgacgct gcacttgacc ggcgcagggg 240
 agccattggt agcggatgaag ctctgagaag gctcatgagt tacataaaga tctcgacaaa 300
 agtgtcctag tggtgaccg tgagtctgtg accatgtact gactgtacaa ttttggcgtg 360
 agtcacgact ggatatcttc ttcgcgttgt ctgagtgcct ttcccactca atgttacana 420
 gccaccatga aaaag 435

<210> 38005
 <211> 404

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-028-Q1-K1-A7

 <400> 38005

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 gaggcaaagg gggcggccaa caaggacgag cgatggcgac caaggtcac tgcttccttg 120
 tgctcgcac cctgctcctc gccgtcgctt ttcccggtgc tgctctgcgg cagcaggtga 180
 agaaaggcgg cggcgggaagc ggaagcggaa gcagtgttag cggaagcggg agcggcaacc 240
 tgaatccctg ggagtgcctg cccaagtgcg ggtcgcgggtg ctccaagacg cagtacaaga 300
 aggctgcct caccttatgt aacaagtgcg gcgccaagtg cctctgcgtg ccaccggggg 360
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<210> 38006
 <211> 325
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-028-Q1-K1-A8

 <400> 38006

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 agctctgtaa attattcgga tggaatgtat cgaaatgtgc atgtgggtcca actgcatttt 180
 cctgttcctt ttctgtggcg tcttttttgg cagaacgcga aatgcggcgc gcgtagcgcc 240
 accgattgta gagttgctat tcctactgcc ggagtactcc atgtgtgttg gatattcttg 300
 tggcatatta aataaatgct tggac 325

<210> 38007
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-028-Q1-K1-A9

 <400> 38007

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gtgcctaaac cttggaaact tgtttgactc agagcaggag ttcaaaagag aaacaagggt 120
tacatcaaaa tgtcccccca aagaaattgt ccgcaagatc gaggaagctg caaaacctct 180
aggatttgat gttcagaaga aaaattacaa gttgaggctc gaaaaggtaa aggcagggag 240
gaagggaaac ctcaacgttg ctactgagat actgcaagtt gcgccctctc tccacatggt 300
agaagtccga aaagcaaagg gtgacactct ggaatttcat aagttctaca agaacctttc 360
caagaccttg aaagacgtcg tctggaaatc cgacgatctt caaacgcaac atgc 414

<210> 38008

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B1

<400> 38008

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agaacgactg tagtacctcc gtagcgtatg ccaagtctct ggaacctgaa acagtggggt 180
gagacttata atggtaagca tgcagcacat tgcacacgct tgcttgctac tctcctaaga 240
cttaactttg ttaccggagt agctgtcgag actatggaca tatatactca tatgtacatg 300
cgaacagtca cctatggaca tcgacataga acatgggtcat gctgtttag acaagcaatg 360
gagccatgca ctgacagta 379

<210> 38009

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B10

<400> 38009

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gagggcacac cagcttttag cgactacgat cgaatggatg gccgccaatg gcgagaagaa 120
gatgataacc ctgaaaagct ccgatggcga ggagttcgat gaggaagagg ccgaggctat 180
ggagtccggag accatccgcc acatgatcga ggatgactgc gccgacaacg gcacccgtct 240

ttctaacggtt aactacgaga tcctatgcaa ggtaatcgaa tcctgctgca tgcacgtaca 300

<210> 38010
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B11

<400> 38010

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gaaggcgacg tcaaggagct ccaaggctgg gctgcagttt cccgtcggca ggatcgctcg 180
gttcctcaag gccggcaagt acgccgagcg cgtgggcgcc ggcgcccctg tctacctcgc 240
cgctgtcctc gactacctcg ccgctgaggt cctggagctt gctgggaacg cagcgaggga 300
taacaagaag acccgcatcg tgccgcgtca catccagctc gccgtgcgca acgacgagga 360
gctgaccaag ctgcttggtg gtgccaccat cgcgagcggc ggcgttatgc ccaacatcca 420
ccagcac 427

<210> 38011
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-028-Q1-K1-B12

<400> 38011

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aagtggatga cccatggcag gttgatatgt cggaattatg tctaagttaa ggccctctctc 120
gtaacatgcc agacaatggt gcagaaaatg gcaccgaggg aggaggctct agagttaa 180
atgctgtgat ggatgttccc atcaccttac cttcgttgaa accagctttt gacaagccta 240
accccaaaca aggcattggt atgctgtcat ggagcagcga cagccactat ttcttcacca 300
ggaatgacaa catgccaaact gttcttttga tatgggatat atgccgnctt gagcttgccg 360
ctgtgctcgt gcagaaagat ccaatccgtg ctgcagcatg ggaccctacc tgcacacgcc 420

ttgtttatgc

430

<210> 38012

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B2

<400> 38012

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ctgagccatc aaagctcggg gcggatggcg gggcgggcggc agatcaagaa ggagtgggtg 120

caggcggcgg cggaacggcg gtcgtggtgc gtggcgctgt cgctggtggc gatgctggtg 180

gtgctgtgca cgctggggcg cggggaaggc ggcggcgggc cgccggtggt ggtggtgcgc 240

ggcgcgggcg tgtcggcgcg gccgtgcgag gagatctacg tggtggcgga gggcgagacg 300

ctgcacagca tcagcgacaa gtgcggcgac cctctcatcc tggagcggaa cccgcacgtg 360

cacgaccggg acgacgtctt ccccggcctc gtcattccgga tcacaccgtc caagcccagg 420

tagatcgatg gcgatccatc ggtc 444

<210> 38013

<211> 300

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-028-Q1-K1-B3

<400> 38013

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ctgcggccgt ggccaaagga cctgcagggc cgacgacgaa gaagcagtgc tggtgcgggc 180

agtgcaccag ctggtcgggc gtgtggacct gcgacgacct nctaccaag tgcgccgnca 240

cctgcaagaa ctgcgtcccc gtgtccacgg acaagggggc catcaagtac aggtgccgcg 300

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B5

<400> 38014

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attagctcta ggctctagct agccgcgcca ctcccttcgtg tagccatcag ccttctcatc 120
gccaccaatg gccactgccg aggtccagac cccgaccgtc gtggcgggcg aggaagcgcc 180
cgtgggtggag accccgcccgc cggccgtcgt gcccgaggag tctgcccccg ccgaggccga 240
ggccgaagcc gaggtctgtg ctccctgctga tcccaggag cttcccgcgg ccgagcagca 300
ggcagccgcc gaagcggagg ccgcggctcc tgctggtgcc gaggagcccg tcgcggccga 360
accggcc 367

<210> 38015

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B6

<400> 38015

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gtatTTTTTgg ccccttggtg gggagagtcc agttcctacg tgacgacgac cccccccagt 120
tcggcgtaga tgaaacacaa actagcagaa tgcagattgt taggattttt ttttttcagg 180
cggcggggtg gagccattca ttgtcatggt gacaggactc ataatagaaa tacaggtaac 240
atgtgtatct ccgtc 255

<210> 38016

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-028-Q1-K1-B7

<400> 38016

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ccccacactt gccagcccgc tgcactgcac acacgcctc ccactcgctc cccggtctag 120

cctcgtccca atcccacatc gtctccgaaa tctctccatc taccggcggc gcaagcccga 180
 ccgcgctgcc tctccttctc tctccctctc cccagtctcc gcgcgaagtt ctcttctctc 240
 gcgtgctcgc atatagtcgc atcgtaggg cgcgtagtgg gagagggagg ccttcgctac 300
 ctccgtggca ggcacagacg accatgaagg cgctgggtgg gacgggtgctt ctctnctct 360
 cttccaccct cgccgcgtca cagtgggtgcg tgtgcaagca ggacgcgtct caggccgcgc 420
 tgcagaagac gatcgactac gcct 444

<210> 38017
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-B9

<400> 38017
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 cggcgaatct gattgtctgc gagcaggcca ggccgggcca gttcttcggc tacaacctca 180
 ccttctggag ccacctccga ttcgggggtcc cgtcgaccat catcgtcacg gcgattggtt 240
 tgctcatcgt catcagttac tgaaacagct gaaggcagaa gagcgtagtg taagagaagc 300
 agaatggata aaaatccttc caataagaag tacatgtaaa ttaggcttgc cctataactc 360
 aagtgtgtat cggtagctta tgtctccgtc tgtgctcttg ctcgtagca agcagcacat 420
 ggctgaccgt gtagc 435

<210> 38018
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C1

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 atgaagtact tgtgaaatat gaggcccgtc tggaagatgg tactgttgta tccaagtctg 180

agggggttga gtttactgtg aaagatggct acttttgtcc tgccctggcc aaagctgtca 240
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agaagggtag accagcagct ggagaagaag gtgctgtgcc gtcaaagtct tcgctgctca 360
ttgaccttga gttgatttca tggaagactg tcacagaaat tggggatgat aagaaaa 417

<210> 38019
<211> 167
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-027-Q1-K1-H10
<400> 38019

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gaaaggcaaa acacaagttc atgactgagt cgatttcaaa caccactgca acaaatgaac 120
atcttagaca cttggctatg gaccgtaggt ctacaagaga tgaatgc 167

<210> 38020
<211> 453
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-H11
<400> 38020

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tgttaaataa ccagagcaca gttgctaagg ctgtttctgc aagagggtga tactctctc 120
agattgctag caattccata tctcggaaca atcatcattt gatgggattg ctttcttatg 180
cagaggacac aaataattca tttgagggaa ccagaaaatc acaaacttca ttttcagctt 240
atctttctgg cattgggaag aatcagggtg atgaagttgc tcttgtaagg aaagtacttg 300
atttcaagtt tcataatgct aaaggattgc tgcaactgat tcgtcattcg ttggagtcta 360
tcaaccatga nagtgggtaa tgatctacca agtataggta tcttggnaaa agagataatg 420
atgggaaggg tgctttggca actgtgctat aca 453

<210> 38021
<211> 415

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-027-Q1-K1-H12

 <400> 38021

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 tgaggccatc gatgacggcc gtattggccc acgtgatgat ccgaagggtgc gctcccagat 180
 cctctctcag gagtttgggt gggacaagga cctggccagg aagatttgggt gttttggacc 240
 tgagaccact ggcccgaaca tggttgtcga tatgtgtaag ggagtgcagt atctcaatga 300
 aatcaaggat tctgttgtgg ccggtttcca gtgggcatcg aaggatggtg cacttgctga 360
 ngagaacatg cgtggaattg ctttgaggta tgtgatgtcg tcttcatgct gatgc 415

<210> 38022
 <211> 465
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-027-Q1-K1-H2

 <400> 38022

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 ctggaacggg gtccgttctt ttcgtacttc ccccgttcgc tgagccgagt ttctgtctct 240
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 tcttctcttc tccgtccct cgtcttttcg tcgactccac ccactctcag taggccaacg 360
 gtccgctaga cctggcagcg gtccgcaacc catagaatat cacgaagagc gaagatctaa 420
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<210> 38023
 <211> 360
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-H3

<400> 38023

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tcatctagac ctctctcgct atagtcttac atgatgatgc acttcgtgat cgctaccaat 180
ttacgggtgta taagttgctc gaattgttca agattagatt tctttatttg ctgatgctcg 240
gtgaagttca agaagttcga agtatttaag ggtaccattc tgcatttagt gttcgggtat 300
taactgctta agagttttcc tcattttcgg ggtgctggct tacttaaggg ttttactatg 360

<210> 38024

<211> 494

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-H5

<400> 38024

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cgtgcagcac acggcctcat gattcatatg catcgtcgtc atcatcgtgc gtcaatccca 180
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cacgcgtatt gattggaatt ggaggtgctg gcatgtcgac tcgttatgaa gttcatcagc 300
agccaaacgc aatgcaattc gtaggtaacc aagtaggggtg tcgtcacaca cagtgcgaacc 360
aaccgcgtgc acgggcacgg cggcctgacc actggacgcg caactttcgc atgcgggttg 420
gtttgcgtta aatgcatggc gattcgcgta ggtctcgcgc gctgacgacg ccgcatctcg 480
acaacgacac aact 494

<210> 38025

<211> 496

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-027-Q1-K1-H6

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 aacctgtcat cgccgaagtc gtctagaagg tctccgaacc cgccggctac gattcgacgg 300
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 aggataatgg cctccctaag aagcctgtct taaggctagg taatattgcg cccaccaagg 420
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 tacgcgagaga cactat 496

<210> 38026
 <211> 498
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-027-Q1-K1-H7
 <400> 38026

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 ttcgaccacg atcgaatg 498

<210> 38027
 <211> 460
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-027-Q1-K1-H8

<400> 38027

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gagtaggcgt tggtcggaag gactaggcgt tgtaagagtc cgatgttaga ggtatctcgt 180
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tggacgcgtc catatgggta gtaaccacgt tgtcgagaga gaggccttttc taatgttatc 360
gatgaccccg tcctatattg caccgcatcc acgctgaacg gatacattac cattactgac 420
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<210> 38028

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-H9

<400> 38028

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caccagattc agatcatgaa tcaacagaat ctgatgagga cttctatatg tgtcagattt 180
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caaagaggta tgatgctgca ttggacagaa agtcaaaaat tcttgacata atcccgctct 420
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<210> 38029

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-A10

<400> 38029

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 ggtttttgta tggagggcga gggcgagggc gatgaacaag aaccagcgtg tgatcaatct 300
 ggtgcagaag tagaacctgg accaagtggc ccatgtggcg ccatggatga agtttcaaag 360
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<210> 38030
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-028-Q1-K1-A11
 <400> 38030

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 ggaagttgct gcaacttaacc gctactttgg cggcctgaaa tctggtggta atgcttatgt 180
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 agagcaacca atggttaacc ttgaaatgtg catgactggc ctggacaaga agaaagcttc 300
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 ctctggcatc tctgaaatca tccccgagat ggagatctgc gattttgact ttgaaccctg 420
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<210> 38031
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-027-Q1-K1-H1
 <400> 38031

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 gtagcgaaat ctctaagtag gtagttctta agaccaagat gactgtggac gagactgagg 360
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<210> 38032
 <211> 486
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 38032

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 gcccgtcgga actggaacag ccgagaataa agcgggtgaat gggcgtgcaa tgtgcgggaa 240
 ctcgttgaat agcctggggt aaacttcgaa gaaagtctaa aagtgtcgcc cgacgagttc 300
 gtgcagcacc aggcagccgg ctaggcaaag gtcgattaag ttaacgacgt ccagtcgggt 360
 cccctggacg actagttata tcgggatcga gatatgggtt ggatctttat gnggggtagt 420
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<210> 38033
 <211> 477
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-027-Q1-K1-F4
 <400> 38033

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cggcggtgggc gtttctttct tctgagttag actcgctcgg ctatagactc actcgataaa 180
acggcggaaga ctcgctgtac tggcgctcgg cagcgctggc gtttaattac ggttgctacc 240
gtttctaagc gtttagatac cgaagctgct gctgccgata ctcttaagtt ttgtaccgag 300
gttcggaata gcgatatttc gttaactcat gagttcggct ctgacgacgc cgccaagtag 360
cgtaggggta ggaattctcc tcctagtatc gacgccgaga agtatgctgt cgaggtcgat 420
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<210> 38034

<211> 484

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-F6

<400> 38034

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ggtgcaggga atctggctgc ggggtggcag agcgagttag cgagagagag gtagggctgc 180
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atgtgcgtac gtgatgctac agtctcctca cagcgctatt caaacctaac ctatcggttg 420
ctgccccata atgctgcat cgggaaaatt tcggtgccat ttaatccaac tgttccgtag 480
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<210> 38035

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-F7

<400> 38035

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ggaccacccc aacagctcgg acgacaaaaa aaatacaaga taaaaaaaaa aggggtggttg 240
tctcagagga cttaagtcca tgcattgtgc tacgtgatgc tacagtctcc tcacagcgct 300
attcaaacct aacctatcgg ttgctgcccc ataattgtgc gatcgggaaa atttcgggtgc 360
catttaatcc aactgttccg tagtatactt tttccctggt agtcgggtgc acagtg 416

<210> 38036

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-F8

<400> 38036

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gactccctgc ttgggcacaa ctgcgcaaaa gccattattg agatctaccc ggaccactc 180
aacaacttcg acgactaaaa aaaaacctat taaaaacaaa agggttgctt tctcaaaaga 240
attaaatcca tgcattctcg taccttattc tacagtctcc tcacagcgct attcatacct 300
aacctatcgg tatgtccccc ataattctcc gatcgcgaaa atttcgcttc catttaatcc 360
aactc 365

<210> 38037

<211> 274

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-F9

<400> 38037

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tttgcgttct ttcctagtca ttgctgttgc gcttttgtat ttgtcggacc cgtaactacc 180

agggtctctgc tattagcggc acggagcctg taattgtatt gtatgataat gtgatcgagg 240
gtgctacttc ccctcgcat tcctagtgtt gggt 274

<210> 38038
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-G1

<400> 38038

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tggatttaaa tttcgacgac ttctccgctt tcgagaccgt ctatacgcat aagattgata 180
gggttaagca cgagcttatt gtatgtcttc ggatatagaa gcacgttacg ggtcagaagt 240
aagggtcaaaa gtcgggttaaa tcggcgaacg cggttgattt taaactgccca ctattcaaac 300
aattagctaa gctgtaagca cgaacggatc cccgaggatt accgcgtttc gccgaatcta 360
cgcaccattc cgcgaaaaaa aaaaaaaaaa aaaacacaaa aaaaaaaaaa ggggtggtgt 420
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<210> 38039
<211> 297
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 38039

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ccagtccttc cccatcgctc tccccctcggc ccccaatctc gccaaacttc gtcctactn 180
ccccgtcatg cgctacaccg accaggacgt ccgcccgcac gtccgatacg ccgggggcctt 240
tggcatcgcg ttaatccttg aatcgacatg cccggggcaca cggggtcctg ggccggc 297

<210> 38040
<211> 388

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-027-Q1-K1-G11

 <400> 38040

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 gcactccggc cccgctacgc cgcaccgccc atggccgcag ctagccgcag atagagagag 120
 gcgcaggcga gggcgtgcag atccagatcc ggtgggcggg aaggacttga tcgccccac 180
 caccatggcc ggcgcggtgt cgcgctctt cctgctggac atgaagggcc gcgttctcgt 240
 ctggcgcgac taccgcggcg atgtctccgc gctccaggcc gagecgttct tcaccaagct 300
 cctcgacaag gagggcgatt cggaagtgc ctcgcctgtg gtctacgacg acgctggcgt 360
 cacttacatg ttcatncagc acaacaat 388

<210> 38041
 <211> 218
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-027-Q1-K1-G12

 <400> 38041

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 gtactggcag cggagctgat gctgctggcg gggcgggccg agacagcgtc cgagctgtga 180
 gctgcagaca ggtgacgtcg tcagaggcgc cgagcctc 218

<210> 38042
 <211> 483
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-027-Q1-K1-G2

 <400> 38042

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ccctcactct acgagtatta attagataat tcacgagaat cctagacact gtcacgactg 180
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 actgtgcgtg ttagtaaggg gccctacgag ctcaaatacg gacaaattcg ccggggatcc 360
 tgaaccgagc aggaagttag cactacggga cgaattctgg ctagtagtcg aactagggga 420
 tccggagggc ggctcagggg gctcatcgga tgagaaagaa ggtaggacag tttacgtgcc 480
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<210> 38043
 <211> 412
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 38043

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 ggaagtaagt tgattgtctg tcgagtgttg ntgttgacgg ttgctgtggc gttgacgaag 240
 tctcggaggg cggagatttg tggtaagggtt gttgttctgg cgtttgatga ttttctgtgt 300
 gcttcggcga tggcgattgc gtctgggagt gttggtttgc cgtgtcctac tgcttctgag 360
 ggtgatatgg ctgttgtgtc tacttgtggg gtgtcgtgtc gtcattgttg tg 412

<210> 38044
 <211> 471
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-027-Q1-K1-G5
 <400> 38044

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ttttagtcac tcgccaaggt gttggccgga agactcgatt cattcttaaa gcccctggga 240
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 taatagagaa ccgagtactt attccttacg gcgctataga gagccgactt ctaggtgaag 360
 gcgctataga aggaaacggg actcgtcgcc cgttcgttat aagtcttata cttcttcgcc 420
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<210> 38045

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-G6

<400> 38045

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 aacgaagcct accgcgataa accctataaa gcgccgacgc tcgactatcc ctgcgatcta 180
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 gtatacgttt cgagggatct gcgtacagcg cgtcatagc ttaataatat gctaacggat 300
 actaatttag agaatttcac tacggacgaa tcatgtatct acgtctctgt cgataagaac 360
 gatcagctag ctactgactc tccaacctcg tcgacttaga tcgactcatc gattcatgga 420
 cctacatcgt acgatt 436

<210> 38046

<211> 499

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-G8

<400> 38046

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 aaagtcgtcc tatctacaaa atcagtttca tcattagaag taataccgat acccgtagat 180
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tcggctcgat tatccccctag cgttattcgc cttagttgcc ttctctccag ccgtctagtc 300
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agaccgtctc taatacacgg acaccccgac cctataacct cccctaaacg ctttaatactc 420
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<210> 38047
<211> 422
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-F2

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ccttcggagc ttttggcggg tgctcgctct cttcatataa atatgagtcc tgattcgctg 300
taatctcatg ataagactat tgcgatcat gtccataagc cttcgtctaa tcggcctaag 360
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ca 422

<210> 38048
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-D4

<400> 38048
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aggagacggg ttagaagtat gctttcgcta atactaccgg aattaggacc cgtgatcgtg 180

atcgggtctca tgttgacttt gacggtacca tcgcacctag gatggaatct aatgtgcaga 240
tagatattcg ggcgcacgcg ggagcgcaca tcgaactcgg tgtctccgtc gccgagtttg 300
agtacgtaac tacggacatc tgtcggacta tatacccaca tccagtagca ctgtacgtcc 360
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<210> 38049
<211> 478
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-D5

<400> 38049

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gtggagtagt ctgttggttg cgggttattg cggctctgcc tagctgtcgg ggaggtttct 180
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acttcaagga gatctgatta ttttaatact actaaaccag agggctccggc tattcntagg 420
acgctacgta attccccatt cgtcctgag catacggagt acgactccgt cggctccg 478

<210> 38050
<211> 259
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-D6

<400> 38050

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acctaacctc tcggttgctg ccccataatg ctgcgatcgg gaaaatttcg gtgccattta 180
atccaactgt tccgtaatat actttttccc tgtagtcgg tgcaacagt aataggtttg 240
cattgactgg ttcccttaa 259

<210> 38051
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-D7

<400> 38051

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ggttgtgtgt gtttgggtgt atttgttggg ggtctgcttt gtgtgttgtg tactgttgag 180
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ccgtcgaagt ttgacgttat ggcgactccg tgtaacgtta aaactgatac gcctaaagga 300
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caattgctga agtgcctt 438

<210> 38052
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-D8

<400> 38052

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tcaaaggact taagtccatg catatgcgta cgtgatecta cattctcttc acatcgctat 180
tcaaacttaa cctatcgttt gattccccat aatgctccga tcgggaaaat ttcggtgcca 240
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gcattggtgt accaagtgtg tgagccgcgg cggccatgtg taatgcgatt gacatatccg 420
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<210> 38053
 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-027-Q1-K1-D9

 <400> 38053

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<210> 38054
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-027-Q1-K1-E1

 <400> 38054

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 ccatgcatgt gcgtacgtga tgctacagtc tctcacagc gctattcaa cctaacttat 240
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<210> 38055
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3069-027-Q1-K1-E10

<400> 38055

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<210> 38056

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-E12

<400> 38056

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gaatcagcag ggcgtggatt accccagctt caagctcgtc atcgttggcg acggtggaac 180
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ttattgctgg gacactgctg ggcaagaaaa gttcgggtggc cttagggatg gctactacat 360
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<210> 38057

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-E2

<400> 38057

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 aaacgacccc ggcgacaaaa aactccaaga aggataacga accctcgaag ggaaaacgcg 180
 agaatctaga caccgtctcc gcgaagtcta ccgaagagtg cgagtcaatg aagaagtaaa 240
 cagagaaacc gaaaaattaa aaggagatat ccgagctttc gcgctgacta tcatagggtag 300
 aaaggaaata aggttgtcat gttagcacct tagatgtttt cctcagttaa gaagatacgt 360
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<210> 38058
 <211> 101
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-027-Q1-K1-E3
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<210> 38059
 <211> 336
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-027-Q1-K1-E4
 <400> 38059

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 aagaagtacc caagtagtgg cttaataaat cgtttaagta cctaagagct actataattg 240
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<210> 38060

<211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-027-Q1-K1-E5

 <400> 38060

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 tgctacagtc ccctcacagg gctattcaaa cctaacctat cggttgctgc ccataaatgc 240
 tgcgatcgga aaaatttcgg tgccatttaa tccaactggt ccgtagaata cttttcccct 300
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<210> 38061
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-027-Q1-K1-E6

 <400> 38061

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 tatcttcttg cgcagttact agttcctcta ctgttattaa cggttatcgt tgaagcttag 180
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<210> 38062
 <211> 358
 <212> DNA
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 <223> Clone ID: LIB3069-027-Q1-K1-E7

 <400> 38062

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<210> 38063
 <211> 430
 <212> DNA
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 <223> Clone ID: LIB3069-027-Q1-K1-E8
 <400> 38063

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<210> 38064
 <211> 111
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 38064

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<210> 38065
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-F11

<400> 38065

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aagaaaaatt gaaaaat tttt aaaaggacaa taaacaaaaa aactcaataa caaaaa 116

<210> 38066

<211> 443

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-027-Q1-K1-D3

<400> 38066

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cagactctct cttttttctt ctatatgtat ctatctctgc tatcgaggtc agtcatcagt 180

cgacatcgga agctcggaat atgtatcgct atccgtctgc cctaaggatt cgtttcgcgt 240

taaccaagca gcatgttgct gcatggctag tctcgagtcg gtctcctgcg tctgtgacgg 300

tgctggagcg ggaaacgggt acgggggcgg agtctggtac gggaacgggt ggtatgcatt 360

attataatgt tcntagtact attattgtgt tgacgacgac gagtagttac ttttatagtt 420

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<210> 38067

<211> 228

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 38067

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agctgctggg tctgatgacg attccttagt agaatagttc gagtcatgtg attacgttgg 180

agctgttgcc taaggatctg atcattgtat actagcctgc gttgagtt 228

<210> 38068
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-027-Q1-K1-B5

 <400> 38068

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 ggggtaaacc cgtattgcag cattacggta cggtcacacg tggaatcgcc gaccgacgag 180
 ctgccgcatg gcccgctgat ccgacgacac gccgacgcgg gagttttcga acgaggtggc 240
 accaacggaa acacaggacg gtaacgataa ctaaaaaaaaa aaaaaaaaaa ggggtggttgt 300
 ctcagaggac ttaagtccat gcatgtgctg acgtgatgct acagtctcct cacagcgcta 360
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<210> 38069
 <211> 209
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-027-Q1-K1-B6

 <400> 38069

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 gtagtggtgg tggttaattac tattagctgt tgcgtctgat gacgattctt gagtagaata 180
 gttggagtca tgtgattacg ttggagctg 209

<210> 38070
 <211> 100
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-027-Q1-K1-B7

 <400> 38070

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 aaaaaaaaaa aaaaaaaaaa aacagtaacc cccaaaacaa 100

<210> 38071
 <211> 212
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-B8

<400> 38071

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 attaaggaag acgatgagt gactaccgtt aattcctggg tctaatacaca attgcgtagg 180
 agtatagctc gaatcgtgtt attaccttcg ag 212

<210> 38072
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-B9

<400> 38072

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 tcaagaactg ctttggcgga tccatgaggg gaacagggtt actggtggac tgaaatttgt 180
 cacaaaatgt tacggaatag ttggttttgt aaagtttctt ggtccttatt acatggttat 240
 aataaccagt agaaggaaaa tcggcacaa atgcggccat gaaatttatt ccgtcggcaa 300
 gagtgaatg attgcaattt caagtgttac agtctggccc aacgtggctt attctatgga 360
 cgagaacaga tataagcgcc ttctttgctc agttgacctt tcgaaggatt tcttcttcag 420
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<210> 38073
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-C10

<400> 38073

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ggcaagacag caggtttctg taccaatctg agccttcgtg tctatctgat tgcaggaata 180
aatcgtattg cggttaacat gaactccaca tgtatctagc gttgatacca tgccaagagg 240
tgggtgtgcac cgaacatgag ctccacatct atgcgtcact ctgcatggaa gtctgagccc 300
ttgactcact ttagccacaa acag 324

<210> 38074

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-C11

<400> 38074

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tctaccgtcc ggtttcgtct gaaaccatca ttaatttcga tcgtccactc cacgcacagc 300
aagttcttta cggaccttgc cgcatatgat atgtacatgg tgacaagata aggtacagga 360
gaattgatga aagaagcgtt gccggccagt cgtcgttgac aagaacaaca cataaataaa 420
acattattac ggagta 436

<210> 38075

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-C12

<400> 38075

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 agtgactcat cattggatgc cctttacaga gaggggtgctc ttccattgct tgttgagcta 240
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 aatttggtta atgtgaactt caacggatgt acaaattttc aagaattggg gtgcgaatct 360
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 atgaggagat cagtg 435

<210> 38076
 <211> 310
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-027-Q1-K1-C2
 <400> 38076

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<210> 38077
 <211> 348
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-027-Q1-K1-C3
 <400> 38077

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<210> 38078
<211> 141
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-C4

<400> 38078

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aaaagttgac cggcctcaca t 141

<210> 38079
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-C5

<400> 38079

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aaaatcagat taggccagcg agacgctaag caggccgata ctggacatca gaactcacgt 180
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cgcgaccggg acagcggcga cgtctcctcg ggcgaagaat aagacacggc gatcggcggt 300
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taattacacg cccgactgcg gctttaaaaa gaaaagaaaa gacgggtctga cggcccactt 420
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<210> 38080
<211> 478
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-027-Q1-K1-C7

<400> 38080

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tatgatcact aacacccttt taaccacac ccaacccgag gtgcctctag ccgccttagg 240
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tagagttagc ctctccggac gtaatcgtaa ccgtcctcga taagacttcc ccaccggatc 420
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<210> 38081

<211> 247

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-C8

<400> 38081

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agaaatacac tccccattaa agtagcggaa cgggtccaata gtacgtctcg gataacgcca 180
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tctcgtc 247

<210> 38082

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-D10

<400> 38082

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<210> 38083
 <211> 396
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 <213> Zea mays
 <223> unsure at all n locations
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 <400> 38083

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<210> 38084
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 <212> DNA
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 <223> Clone ID: LIB3069-027-Q1-K1-D12
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<210> 38085
<211> 377
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-027-Q1-K1-B3
<400> 38085

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<211> 345
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 38086

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<210> 38087
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-027-Q1-K1-A10

 <400> 38087

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<210> 38088
 <211> 353
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-027-Q1-K1-A11

 <400> 38088

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<210> 38089
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A12

<400> 38089

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<210> 38090

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A2

<400> 38090

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ctctttccta ggcttacgac ccgcaagaga gccggacccc ggtacttagc cccctatag 360
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aaa 423

<210> 38091

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A3

<400> 38091

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<210> 38092
<211> 256
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-027-Q1-K1-A4
<400> 38092

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<210> 38093
<211> 315
<212> DNA
<213> Zea mays
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aagtcggtat ggtggacgat ggagaatcct cgtgttgggg ctagtgtgct actcgtatgc 180

gaacggagca agtcggatgg tgtcgtaagt agtactgggg aagacgcgtg ggctacggta 240
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<210> 38094

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A6

<400> 38094

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 agggtcgcga aaaagtcggc ctctcttctt tatttaagga aagaagaccc gtagcctcga 420
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<210> 38095

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A7

<400> 38095

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 tgagagagcc tagcccgtta ccgacgctcg cagtccacga agtttccagc cagccgttat 180
 cgccgccttc ggcacccgca cgaaccgggc cacgaaaacg aagagccgcy ccacgagccg 240
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 aaagggtggt tgtctcagag gacttaagtc catgcatgtg cgtacgtgat gctacagtct 360

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405

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A8

<400> 38096

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gtgggtgggtg gtagggtaat tggtatcgta gttgagactt ggtggtagt ggtaattggt 180

ggggggtagg tggctgggat tcggcgctgg ctcatagtta gatagtagta gtagtagtgc 240

gatattatca ttgcacggct tatcgctcttc ccgctcggcgc tgcttatcgt cttctcgtaa 300

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<210> 38097

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-A9

<400> 38097

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ggctccagct gctcctgagg cagctcatgc aactgcatgt cccctaacgt ggagaccgcc 180

gccgccagca gcatcaagac catggtcctc gctgcgccga ccaccaaggc cagcgccggc 240

ggcttcgagg cggccaccga gggcgggcgc tgcgactgca acacctgcaa gtgcggcacc 300

agctgcggct gctcctgctg cagctgcaac tgagcgccgg ccggcccggc gatggcgcg 360

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tcctgtcaac tgcacccgcc atcatcgat 449

<210> 38098
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-B1

<400> 38098

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atcctagcag tataggcca tgcg 325

<210> 38099
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-B2

<400> 38099

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<210> 38100
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H9

<400> 38100

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atttttgtca ggtcaggta aagttacttg cttcagatac ttagtaattt tgaaaggaac 300
 atcaagagcc ttatcttatt ctttctggcg ggcattgac cagtacactg atgcggctac 360
 tgcttcagct gctagagaat ccttagatgg aaggagcatc ccaagttact tgcttccgga 420
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<210> 38101
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-026-Q1-K1-G4
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<210> 38102
 <211> 474
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-026-Q1-K1-G5
 <400> 38102

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<210> 38103
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 38103

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 aacgtgagaa aacttgaaaa ctggggacgt tctcgcgacg gtctccgtcc ttacgtaaac 180
 agacggcgga attcatggca gcattccgta gtcgtcggac tccccgatc gcggcgggac 240
 catattttcc gtagtatgcc ggccaagaa attccatccg ttcagaccgt ggcggtcggg 300
 aaccataggc agtcngaaca gggccacggc ggacgtatcg ctctgaagtt ggctacctcc 360
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<210> 38104
 <211> 487
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 38104

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 ggtacccgcc ggtcctccgc cacttactcc cggctcggaa ccttccgtc tcgctcggc 180
 caccaccgga cggacaccgg ccatcggaat gccacttcg cgcggcgac cctcctcctc 240
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 atatatagtt tcggatgagg ccacttttcg tgcggagttc gttatggtga atgaactttc 360

gcatagaagt aggtaggcga tgcctgagtc ggcgaatgcg gcgaattagg cgactattaa 420
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<210> 38105
 <211> 436
 <212> DNA
 <213> Zea mays
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 <400> 38105

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 catgtgacgg gtcgatgaat gtcccttcgt ctgctcgggt gttaccgcct ttcgggaccc 300
 gccgcgggct gcacgcactt tcgacttact caggactact gcaccgcacc gcagcgcacg 360
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 <211> 433
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 <213> Zea mays
 <223> unsure at all n locations
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 <400> 38106

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ctacatcgag gcggggatag ggctggcgga gtggttcaag agggacgtgg tcacgtcacc 360
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tttccacgac atg 433

<210> 38107
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H1

<400> 38107

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aatccgtaga ggggtacttaa gccggtcgtc gggaaggcat acaaattatc acggaagtaa 360
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<210> 38108
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H10

<400> 38108

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tactcttcta tcatgtctcc tacatctaata tgactgcccc ccgttctacc acttctttcc 180
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<210> 38109
<211> 443
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H11

<400> 38109

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gcaagtcgac cggcggaag gcgcgcgga agcagctggc caccaaggcg gcgcgcaagt    180
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agcgcttgt tgcgagatc gcgcaggact tcaagacgga cctgcggttc cagtcgtcgc    360
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<210> 38110

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H12

<400> 38110

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ccaccacggg cagcgtctag ctatgttgct ggccctcatt gtgtcattct tgctcgtgct    180
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cgacatggac cagagcgaat ccctgtcccg tgctgagctg cagccctca tcgtcgggat    420
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<210> 38111

<211> 246

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H2

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agtcattacg acggttacga ccataacata gaggccgaac ttcgatagta gatcgccagg 180
gtacgaaccg gacacaatcg atcgagaggg gtacatcacg cggatacga ttaaaccaaa 240
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<210> 38112

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H3

<400> 38112

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<210> 38113

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-H4

<400> 38113

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<211> 378
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 38114

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<210> 38115
<211> 459
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-026-Q1-K1-H8
<400> 38115

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cttaagtcca tgcattgtgcg tacgtgatgc tacagtctcc tcacagcgct attcaaacct 360
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<210> 38116
<211> 375
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-026-Q1-K1-G3
<400> 38116

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tcgactaagc acctt 375

<210> 38117
<211> 426
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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<400> 38117

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<211> 454
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 38118

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gtaccaacct catgaaggta acgaagatca aagagtagag cagaaaggcg tgtcccttag 240
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accctcttag ggcattgtta ggaacaatcc ccttcaattc ccttgctttc aaagaagccc 360
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<210> 38119
<211> 441
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-F2

<400> 38119

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cacgggagtc ggggtgtaagt ctaagattta tagaaggaat tagaggcggg tcgataaagt 180
tcataagaag agttactctg gtaatgagcg gaagaaattt cccgtcgggc tactctatgt 240
aaagggaact gcttccgaga agactggtac cgagggtcaag tagttcaatc tcgtcacttg 300
caagcgtgtc tgcgcatagt cggcgaagaa tgggaagaag accgtcgttc ccgcgttaaa 360

tgacggccgt ccgaatcata ctgaggagaa tgacgacgcg tcgaccgtcg gacctngctg 420
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<210> 38120
 <211> 411
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-026-Q1-K1-F3
 <400> 38120

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 ggaagtattg tattaggatt tccgcctgat gttgttggtc tcgactcttg tgaggccgct 180
 aggacctaac acgctgatta gtatacctgt catccttcgt atgtcgccgg gtaacgccag 240
 aataatgtag gttccttaga tagtggcgaa gagtttcctg ctctcaagtc ctccctagtta 300
 agccatgaag gccttaagtt cgaagattct taagaaatcg gacgctcttg ttacgggtcg 360
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<210> 38121
 <211> 417
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-026-Q1-K1-F4
 <400> 38121

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 catacgggtac gtcgttctac gcattgcggc gacgcggcct ttaaggatgc gaatgtcgtc 180
 gcgggttataa ctaagattaa gtgtattact tagcctgcgg atcggcggtt gatcggtcct 240
 aagcgtggaa ctaatcatta gttctttagt gctgcttttg gtggcgattc ggttaaggcg 300
 tagtgcggtg cgcgtacgac tcttaatctt attagcgccg cggaggctcc tctttgtacc 360
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<210> 38122

<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-F5

<400> 38122

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cgggtcacgg cgccgcctca tttataccgg gcggtacaat actaagagcc gtcgtctccg 180
gccctactca ccccgccgtc ctagaagtct ccgaatccgc cgaaaactcg ggaaacacta 240
acgatcctct cggaagata aggtcacctt cagcgccggt cgctgtcgca tccgacgtca 300
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gaagtacggt aaaatccgaa ccacacagaa agcccataaa cctctccgtc gcgctagcgt 420
ccactctaac tgtccggaca cgtcatgagt cacaccctaa cgt 463

<210> 38123
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-F6

<400> 38123

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agcgggcatt cacacttcgc acggattacc cctccgcagt agcccgcctt gtactcttac 180
gcaccctcta acccgagat cggagagaga ataatagaga gaaatcgacg ccgaggataa 240
ttacagaagc aaccggccat gtccgagagg aggaaccggt taaataggga tcacaccccg 300
gagagcgacc cgggctcca cccgaaacct ccacgccgtg ctaacatctc gacaaccctt 360
aacgctcggc cgcgtctcta tgaagactta aaaccttcg gattaa 406

<210> 38124
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-F7

<400> 38124

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ggaatcacag gtgaaaaaca cgaataaaca aagataagcc tacgatctgg aataaatatg 180
ctatgacgat cggccccaac cccgccaaga gaacctgact acccgcccgga tacggcctag 240
cgaaacagaa attgctagcc ccagcagtag ttaatcaaag gacgcccata cgagtcgcca 300
cctctaaact ctatggctcg agtggggccg tctgtttacc ggtaataccc ctagggccag 360
ctaagcggtg acaagtcgct tcccggcgag tataggctcg cataggacca tccgcgcctg 420
cgaccggcct cat 433

<210> 38125

<211> 446

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-026-Q1-K1-F8

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gccgagacgg taaataaggc cggagccgct gacaccgccc ggagggccgc cgaggactcg 180
aaagacgaaa gcgagtttca tagaagaacg gcgacgaaa taactgagaa ggccggcagtt 240
aatccggggc tactagacac cgacgtctgc tcggaggagt cgtccaccga cggcactccg 300
cacgtccctt aagagtagat cagcgacgat gtanacgcca cgtcaaacgg ccccgaggct 360
gcggccaaac tatccggata gagagccaag tttcattcct tctagacncc cggcatcaat 420
aagcggtgac cggaataata gagcgt 446

<210> 38126

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-026-Q1-K1-F9

<400> 38126

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ggcatcgccg cgacaaggat gtcgaccccg aggcagcggc atacctgcac cttcggcgga 180
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cacgtcacg tncacgtagc ctccgatcgc aagggtaga atggcaatca agaagcagca 360
gcaatgaaga acctcaaac taatttgcgc aaggaggtgt ttgatgctat aactgctagt 420
caac 424

<210> 38127

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-G1

<400> 38127

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agagtctctg aatgacgaaa aattcttcga gctcagaagg tccgtcggca ccacttccaa 180
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tcgggattta ctactaaac cgaagaccaa ggagctgccg tcggcgatat caggactcct 300
ggcctacgac gtaaggtaca ttctctata agctaccgtc aaggccgtcc taaccgagac 360
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<210> 38128

<211> 469

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-G10

<400> 38128

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 gcgctgtccg ccgcgcgcgg gctggcgcac ctgcacacgg cgcacaacct ggtgcacggc 180
 aacgtgaagg cgtcgaacgt gctgctccgc ccggacgcgg acgcggcggc gctctccgac 240
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 ccggaggcggt tggacgcgcg gcggctgacg tacaagtcgg acgtgtactc cctgggctgt 360
 ctgctgctgg agctcctgac gggcaagtcc ccctcgacg cgtcgctgga gggcgacggc 420
 acgctggacc tgccccgctg ggtgcagtcc gtggtgcggg aggagtgga 469

<210> 38129
 <211> 477
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-026-Q1-K1-G2

 <400> 38129

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 cggcgccggg caggtacatt cgctgctcgc tagtgcagat acaaaacaaa aggtctctcg 240
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 cggtaacaaa tgcgcgggaa agtgacgcac tgctgacgat cgctgttggt cgtacggacg 360
 gtatgggaac ccatctctcg ggccaccaca taacgtggta gtcggtcacg tcgacgtcgc 420
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 <211> 432
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-026-Q1-K1-F10

 <400> 38130

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 tctgctccgc ccagcggaca tggaccgcga cggccgcccc gggaggctac cgtcgtcggg 180
 cttcgccttc ctacagcttc actgcgggat ggccgtctac cgctcctggg acgaccccta 240
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 ccttctggag cgccgcggg accagcgcct caagctcgcc gtctggggcc tctccacgct 360
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<210> 38131
 <211> 468
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-026-Q1-K1-D4
 <400> 38131

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 cacctagaaa ttatccattt cagaggaagt cgccgaagtt ctaaaaggcc cttagaccac 180
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 cagcgatcaa gtagtatggt tccggcatct acccgcaaaa ccgcaaggca tcgagacatt 360
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 acgttactta cccagcggc ccgtcgctg ctatcgagac gtcgccgc 468

<210> 38132
 <211> 321
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-026-Q1-K1-D5
 <400> 38132

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 ctgagccctg ctatataaag cactcatag agacacgtcg gatcgcccc cctaaacgcg 300
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<210> 38133
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-026-Q1-K1-D6
 <400> 38133

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 gctcttgtgt agggttctgg tcgtacgggt acgcttgctt ctcattggctt gtttaagttt 180
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 attcttgata cgcattggtt gtatattaat gagacttcgt caggtaaggt gtcctaaggt 300
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<210> 38134
 <211> 489
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-026-Q1-K1-D7
 <400> 38134

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 tactagtcac aatcatagtc ccgacttacc agtggaacac tcccctccta ccgacaatgg 240
 cgttcctctc gccgacggcg caccgatcga ccctttgacc atcttcctag aggtagccgg 300

ccgtcccagc aattcgaata ttagtaagac cgactacgtc aaattctcag ccactctgta 360
 caacggcgctc agcggcgatc atttagatcg tatcgattaa gtccacgaaa aggtagccgt 420
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<210> 38135

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D8

<400> 38135

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 cttacgtcgg ccccgatat gtcgtcccc cgcgcccaat ccactcgtcg ttgcttcgca 360
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<210> 38136

<211> 438

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-026-Q1-K1-D9

<400> 38136

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<210> 38137
 <211> 376
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 38137

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<210> 38138
 <211> 458
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-026-Q1-K1-E10
 <400> 38138

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 ctgcaactga gcgccggcgg gcccgccgat ggcgcgcacg agtcgacgga aggacgacga 360

cgagtcgtat aaatataata gcggcgtcta aataagatcc tgtcaactgc acccgccatc 420
atcgatccat ggtcgctcct ggggttcatg ttcattctg 458

<210> 38139

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-E12

<400> 38139

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cgacgtcacg cctccggcgc ccccttcggt tgtcacctcg ggggtcgcg attggtggag 180
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caggcatgtt cagcggggtc accgtggcgc tgtaccctgt ctcggtggtc aagactcgga 360
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<210> 38140

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-E2

<400> 38140

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cctggcgtca accgtatccg tttccgttaa actaagtacg cgaatcaacg gaacgtccta 360
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<210> 38141
 <211> 496
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-026-Q1-K1-E4

 <400> 38141

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acttatcgga ggaaggtcgt aaatcggggc tagccactag cgaaggatag catgagaaga  180
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cccgacaaaa ccgtct                                     496
  
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 <211> 491
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 38142

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cggagataag caaatagaat actccggtat taacataatc cacggagaaa atccttcgaa  360
acagcgacac ttaccgcgc agccccttac ttatccggtg taaccgttcg ctcgttttcn  420
  
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<210> 38143
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-E8

<400> 38143

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gaaaattaca atagttgtaa aaaagagtaa gaggtataaa atagcacgga ggcgattcaa 240
tataaaggga tataagtagg acaacactag aattgatgtc aacaatataa gtcaggatgc 300
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<210> 38144
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-F1

<400> 38144

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tcaatcaatc ggtcagtcag tctgacgtgt agagtaaagt gaaagtagta agaagtaaag 120
taacggagaa tttcgtgagc gcgtcagcct cattagtgtg gcctattaaa tctattcctg 180
gaaattcgca tacttgttgg gttgggttgg gtagtaggga gacaattgag gagggtaggc 240
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ttagttccgc ggtttgtgcg taggggacta ttagtgaaac tgggaatgtg tattaatcgc 360
ctgctgacgc gcctgatatt gataggtcta agggctttat gtctgctatt aacggtgcca 420
caatggttgg gctcgatgag cgggtgactc 450

<210> 38145

<211> 396
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-026-Q1-K1-D3

 <400> 38145

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 aaaaaagaga aaggacaaaa agaaaaaaaa agaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 acacacatgt acaaaaaaaaa aaaaaaaagg ggggttatcc caaaggattt aagcccagac 180
 atttgcgctc gtaatgatac agacccctca cggggttttt aaaaccaaac ctaacggttg 240
 gggcccaaaa atctagcaat cggaaaaatt tcggggccat taaatcaaac ttttccgtac 300
 aaaaatTTTT cccagttaga cgggtgcaaaa ttaaaaaggt ttgaataaac gggtccctta 360
 aaaaaccggt taattcaaaa ggtaaacgga attttt 396

<210> 38146
 <211> 179
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-026-Q1-K1-B9

 <400> 38146

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 gaattggctc gtcataattta tatatgcatt ttcactctca aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggca 179

<210> 38147
 <211> 331
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-026-Q1-K1-C10

 <400> 38147

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 gaagaagaag gacgagattg agcgtgttgc caaggccaac cgttgaactg agcttgatc 120
 ctggtgcact ctgcgctgga aacttttatg tcgctggcag tcgtatcggt tcttgtttta 180

ccaatgttta gagttttttg agacctatat gcggttttgg ttttcagtgc acaattaaaa 240
 ttactgagta atgtagttga ttgggaacag aaatgtttgg tgcctgggtt accgaactcc 300
 aaaataaaaa atatacgtgc acagaatgct a 331

<210> 38148

<211> 416

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-026-Q1-K1-C11

<400> 38148

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 ttctcggagc cgctgaccgc tgccagggtt gaggagctga acaacgacct cttccgcaag 120
 accatggggc ctgtcaagaa ggccatggag gatgctggcc ttgagaagag ccagatccac 180
 gagatcgctc tggttggtgg aagcaccagg attcccaagg tccagcagct cctgcggggac 240
 tacttcgacg gcaaggagcc caacaagggt gtcaaccctg atgaggctgt tgcctttggt 300
 gccgctgtgc agggaagcat cttgagcggc gaggggtggtg acgagaccaa agatatcctn 360
 ctncttgatg tggctccctt caccctgggt atcgagaccg tcggtggagt catgac 416

<210> 38149

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-026-Q1-K1-C12

<400> 38149

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 ctggcaccgg ctacgtccgc cgcggccccg cccctgcccc aggccccgcc gacggcgcca 120
 agaccctgcg caagccccgtc ttcaccaccg tcgaccagct gcgccccag acgcacggcc 180
 acaccctcac cgnccgcgtc atctccgcc gcaccgtcct cgacaagccc tncacgcaca 240
 tcggcgcgac ccgcgtcgca gagtgccctg ttggagacag caccggcacc gtcctcgta 300
 ccgccccgaa cgaacagggt gaccttctga agccagatac aacagtgatc ttccgcaacg 360

ctaagattga catgttcaag ggtaccatga ggctggtggt ggacaagtgg gggcggattg 420
 aggtgactca gcctgctgat tt 442

<210> 38150
 <211> 388
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-026-Q1-K1-C2
 <400> 38150

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 agtggacgac gggggtaagt ttgtagagtc tctgaagagt gtgaggaaga agtcgtagaa 180
 gtaggagtgg taggtggaat gcaaagtggg ttgaaaagtg gtggagaagg agtgatggtg 240
 tgttgataca gagtgggtga ggtgcgagcg ggaggatgtc tccgttggtg tgttgctgga 300
 cgaggtttgg gttgagacgg cgggtggtgtg gtgggagatg tgggtgtgagt gggcggggtg 360
 gtgggtggag gagtgtgggg tgtgagtc 388

<210> 38151
 <211> 386
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-026-Q1-K1-C3
 <400> 38151

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 tatcttctcg cgcagttact agttcctcta ctgttattaa cggttatcgt tgaggcttag 180
 attttgattg ctgcggtggt tgaggaagtg tttgcggcgg agattttgtt gttgggtgct 240
 gcgtttgagg agctcgtttt tgttgagggt gaggttgagg ttgaggtcgt cgtcttcgtc 300
 gactttgagg agtcctttgt ggttgagtag taggtagttg ttgagggtga ggttggtgct 360
 ttcgtcggcg ttgaggagtt tgctgt 386

<210> 38152

<211> 406
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-026-Q1-K1-C4

 <400> 38152

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 ttgaggtaga ggtcgtcgtc tttgaggagt ctgttgtgga tgagttggag gtcttcgtct 120
 tcgtcttcgt cggcttttag gagttgggtt ttgaggtgga ggtcgtcgtc ttcgaggagt 180
 ttgagaaggt tagtgagcga ggttgcggtg atgtagtggg ggtggttagg gtttaggttt 240
 taggggactg gtgcgtgtgt gcggtggagc agctcgctgt gtgtgcatac ggtagcacga 300
 tatgggaccc cgtcgcttag catgtcatgg tcatcggtgc tctctcgcg cgcgcgctgc 360
 gcgcgctgca tgcagtttgg catgcagtca gtagcgatcg ctgtgc 406

<210> 38153
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-026-Q1-K1-C5

 <400> 38153

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 accgagcttt cgaataagaa gcacggacgt aacgctttcc catcctcgac gaatctccct 120
 aatatttacg acgatatata gaagaccgcc gagaagcacc ttaatcttaa tactgaaacc 180
 tacatcccta actagagtta gcacttctgt accgccattg aggatcctcc gttatccttt 240
 agtaaaggga aactcgggaa ggacggtcgg cacttcttcg gctacggcga cgcgcccttt 300
 ctcccgaaaca atagtggaaa atccgatact ccaccggtct agggtaagga gcacgctccc 360
 gtcgtaaatac tagataatcc gggcgtcaca gctgatacta agacttcaaa ttactcgact 420
 aacaattaga atgagcatcg tacgga 446

<210> 38154
 <211> 421
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-C6

<400> 38154

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atcgtgctta tgttagagtc atataacgaa aatagggtgc ataccagacg acgctagatc 120
ctactactta accccgctcg tatagcggta ggatagagca atatgcgccg acccggtcaa 180
agggcctctc cccgaggagc ccacgaagtg cggcggaaat tccgttacgt ccgtcgagtg 240
tccttcgtat gaggcggtac ccaagtctcg gaaagtgttc aaacacgggg tccgaggagg 300
gcacttagtg ccgatcgatc cggtgctgtg gacaaacaac tgaagtatta gacgagccgc 360
tgtcccga tggaaacgat cngagcgacg ttggatatcg cggtcgcga gtccccacgc 420
g 421

<210> 38155
<211> 482
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-026-Q1-K1-C7

<400> 38155

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tacggcggtt gcttgtgcgt atattgcgtg ctactcttat ttagtatgat gagattgcta 120
ttaatgatga gactgttggt gattctaagg agtatgctac taagtttgcg actttcgaga 180
agcattctga tgagaagatt actccgtatt ctaatttgct tgggtgtcct gctactggtg 240
ggttttatgg tgatgttgggt tctattgggt gtaagactac tactgatatc catgggtggc 300
gccgagttta tgggtggcgggt gttcctcatg gtaaggattt tattaaggcg gattgtagtg 360
gtgttcatgc ggtaggtaa gttgntaaga gtactgcggg tagtggatct gtttgctgtc 420
gttctgcgta ggcgctgcat gttactgggt cgttggagtt ttcgcttgcg cctgctgac 480
tg 482

<210> 38156
<211> 396
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-C8

<400> 38156

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atatggagca cgtcaccccc acggatctga ggaaccctct ttgactgagt atcggtcata 120

ccgggaagtc aaggctaaac ccttccggaa tcaaaccac tactcatgat atataggtct 180

tgcataacgg tgggagagcc cgtatatagg aatgcgtttt tagttgctgg ccgctcctta 240

ggaaagccct attaagagcc ttaagtggta gtcattttgc tgtctaggcg aatcatgagt 300

cgaacgcgtc gggaatttga gggtttaggt ggacgtagcg tgtcacgtac cttacttttg 360

tactagtggc ggagtttggt ggtgcggcgt tcgggt 396

<210> 38157

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-026-Q1-K1-C9

<400> 38157

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gggcgcgagc tcaggaaggt ctgcccacg cccagctccc cgtgctgctt cactgaggaa 120

cccgccacag ccagcacgcc aggtctctcc tccagctcct gttcgagatg gtgggtggctc 180

catgtttgga ggaattgggt ccaccattgc tcaaggtatg gcgtttggca cgggtagtgc 240

catggcacac agggctgttg actctgtatt aggtccccg accatccagc atgagactct 300

tgccacagaa gtcctgctg ctgcccctgc tgctccagcg atgaatgctg atgctnagc 360

cttcattct aaggctttcc aagattgtct caacaactat ggcagcgaga tcagcaagtg 420

ccagttctac ctagacatgc tgaa 444

<210> 38158

<211> 268

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D1

<400> 38158

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aatttctatg gttgctcgta gaacgggggtg ttactctgtg tcgtcttcga tttcgtcatc 120
gtcggttctg atggtgggta tgtgttcggg gcttgttgat cgtgtgggtg acaagccttt 180
ggtaggggtgc gtgcatgtgc tgcgtgagga ttcgttgaat cgggtgtgcg ctatcgggtgc 240
atgattgcta aatcttcgct gggtcctg 268

<210> 38159

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D11

<400> 38159

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gaattgcagc tagccgcggg tgcggttgga ctggatcggc ggcagggcag ggcagggcgc 120
gcggcgggtg tgtggtggta gttgcagaag tgacgggtcaa gttttcctcg ctcccttgctt 180
cgcccgagcc tccgcctgac gctactacca acatctccac ctgaatccat ctctatctac 240
ctcgcacgaa cgaacagaga caggggaggg gaggaattga agtgtaaccc aaggaaagga 300
accatgatgg tgtggcaggc ggaggaggag gattgatcca tccgtctacc catcagaccc 360
atccatccat cgggtggtggt ggtggtggtg gctgctgtta ctgctatca ccatctgct 419

<210> 38160

<211> 364

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-D12

<400> 38160

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aaaggaaaaa caaaatacca aaaacagaaa atcaacaaca tacaacataa tatccactca 120
acacactcac atcacaactg tacaaaaaat cacaacaaag ggcactcccc taaacctccc 180
tccttccttc caactcccct ccccatgaat caccttttta catgatcccc taaatccaaa 240

tatctctccc tctttctaac aaccctaaca cgggaaaacc cccgtatgcc cacccttaca 300
cacccttgag acccactatc aatttcccc tttcacgagg atacttacac ccccccccta 360
tctc 364

<210> 38161
<211> 315
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-026-Q1-K1-D2
<400> 38161

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ttaagttgag ggaaggcgac gagtgacggc gtgtgggtgcg gcgcttgta acgggtggtct 120
ggctgtgggt aagaagaatg ggctggccct tcctatcact gatcgtatta agttagcgga 180
ggataagact acggacgctg ttctgtctca gaagccttcg taggagtgt ctaaggctgt 240
tggtagtaac gtcggtaatt ctctgtatct tgctattacg ctctgtgaga agattaaggc 300
tattgcgatt ctga 315

<210> 38162
<211> 391
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-026-Q1-K1-B8
<400> 38162

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ctccgagacg tatgtcaata gcgagggaga cacattagcc gtcgcgatag gcgatacagc 120
agtgtccgtc ggctcgaaag atataacat cggcgaaata tctcgcgatt tagataagtt 180
cgcagcgctc gaatgcacgg aacccttcga ctctcgtacc aaggccgtca ccgaatttaa 240
gattaaagtc gacgttgata aaacgggtcat cgggccaaact aagtcgctct aagaagattt 300
gtaccttat cctctcagag atgaggaaat taattagatc gccaccgaag gaacgggaga 360
accgtactcc gacactaccg cagatagatc a 391

<210> 38163
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A5

<400> 38163

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ttattcggcc acgtccccgc cgagcccgaa gacttctgcg acgtcgagga ggtaaccgtc 120
ggatgggacg gacataatcc cgacggatat tgctcaagag cggaggtcgt ctacggcggc 180
agaggcaacg tccttctgta cgactgccta agcggteccg gcggtggcgg cggagtatgc 240
tgcggcgcgc tgagatatct agagcactgc gcctccgcta tcggatcggt cctcctcgta 300
ctacggtagg acccaaagga ctacacgtgg aaggtcggcg acgccggcc tctcgaagcg 360
cactgtgaaa gtcgcggtat tgcacgaacc gcggatcata taaaccacga cgacacgaaa 420
cacgtcgcaa gcttacaaca tacctttccg ctctacgat 459

<210> 38164
<211> 447
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A6

<400> 38164

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aaacaatttt gtaattgtat ttatatctcg tgtgcgtctc tctcgtttta cttgtgtgtt 120
ttcttcttct tattgtttgc tttgttggtg ttgttgtttg gttgctcggc ggtgacggtg 180
cattgggtgg atgatgatca tgatcattct cctaaggcgg cgtctactgg tgatcttggg 240
gctggtaagc ttaattcgtc tctgtgtcct atgtgtaatg agcctagtgc tgagcttaag 300
cttattactg gtgctgagcc tgttatttgt agtacttatg ctgaggataa agctgctaag 360
gtttagactc gggatattgc tggttaggaa agacattgtg tcactatgaa gtgtgcatca 420
ttgtgagtg caggggtgtc ggctgcg 447

<210> 38165
<211> 414

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-026-Q1-K1-A7

 <400> 38165

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 tgggtggagac gctaggtagg ggtaaggggtg gtaaggggtc tgggaagggg ggtgtgaagt 120
 gctattggaa ggcgtcgtgt gataatactt aggggactat gaagttggtg acttggaggt 180
 cgggtgaggag gggcgggtcgc aagtgtactc ttgggtcgac tcatgaggag atttgtggtg 240
 cgtctaagac tccctctgag aacgctactt gtgatgtcgc gattcatatg gagtatgttt 300
 gctgtaaaat tgctattgtc acggatgctg cgcatgtttc taaatgttag gggtgtatct 360
 ctcacgggtcc tgggtggtcag gccaggcgcg ggcaaccgtt cgcttaggcg ctct 414

<210> 38166
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-026-Q1-K1-A8

 <400> 38166

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 gcatcttggg tacttagccg ttcgcgtcgc gggtaccgaa gtctcgaaat cccactgtga 120
 aagggatacc tttgggttac ctaagtaaac tgttttaaaag ccttaggatg ggaccagggg 180
 gtcggtagat agcttgacca caggggagac atgcgggtccg gggacgacca cgggcattga 240
 acctataaat aataagctat tgatcgactc gccttttggt gaacgggggg ccggcggttac 300
 tcctggtgaa gagcggttaa agtgtggtac gtcggcgaa gctgtcgggt atgttactac 360
 gacgctggtg atgtcgacta cgatgtttgg tga 393

<210> 38167
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-026-Q1-K1-A9

<400> 38167

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actggggcct ncgtgtccgt ggccagcaca ccaagaccac tggcaagcgt ggaaaaactg 180

ttgggtgtctt caagaagcga ntagctacat atctatcgac aaatctcaga tgtactagtg 240

tttgttcttg ttcaaactgt cttgatgaag ggtttctgtt gggacagttt cctgaaatta 300

tgttttgccc taggataatc tngcagttat ggaaaccttg tatattgtat cctgcaattt 360

ggtttttgca acttataaga gtaattntat ttgatgagtc ttatgctg 408

<210> 38168

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B1

<400> 38168

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gtagtgggtg cgtegtcgtc ggtgggtgggg gttgggatgg tgctgggtgg ggcgagtcgt 180

ggtgaggcga tgctgctggc ggtgttgctg tctgggcatg tgacgggtag tgtgggtgctg 240

tttcttctgg tgcgtcgtag tggggcgctg ctgtctaata gttgtgtgct gctgggtggg 300

gattggtagg ttattcgtaa tcgttctaag agtacgatgg gttgggtctg tggtgggtgct 360

agtacgggta atgttgataa ta 382

<210> 38169

<211> 153

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B10

<400> 38169

cccgcgcgtc cggttactcc aacctatatt ttttcgcatg cataaggggc tatggctgaa 60

gaatcgtttc aaaatattta tggccgcata atcactctca aaaaacaaaa aaaccaacaa 120

aaacaaaata aaccaataaa aaaaacttaa aaa

153

<210> 38170

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B11

<400> 38170

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agtagaattt agatggctct gtttcgcttt catgtggatt tatcttgcaa atgggtatgtg 180

gatccgttcc agaggcaatg agccttgacg ccagtttgca gtataaaaaa cccaattatg 240

tccactgctg gttcgacgca gcgtgtgccg aggatttcta ctgccaagca taagaaagta 300

tttgaaatca agaacttgca ttcattcaat cataatgtgt ttcctatcaa gcataagtgt 360

gtgtgttttg tttgatattt gctttaatat gagaatggtc ttggcacccc aaaaatgttc 420

ccattctact ttcgggc 437

<210> 38171

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B12

<400> 38171

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tatcttttca actaaccaca ccgcttgggc acacatttaa acctcaccag gtgtttcttga 180

aattgaggca tgagagtaag gttgaacact tattcgtggg acctggctct gcaaggcagt 240

tcaaaattgt tcttgacttc ctaggtttgg tggagaaatt ttactacctt tctggaagat 300

atgaccttga gcttaccgtt ggtgatgctg taatggaaaa ttcatttcta cgacctcttg 360

gccatttggg gttggacctg ccagatgccc cagaaaaagc cccacgtcct tctgcacaag 420

ctgttgacct attctcaaaa ttg 444

<210> 38172
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-026-Q1-K1-B2

 <400> 38172

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 aatgttagca cctcgccctc gctgtcatag aaaaccgcat aagccccgcc accctccggc 180
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 ttgagcaatc gccccgatcc tagcccgtag acgagacgtc ccgccccagc tggaaggacc 300
 tattacgtca cggcagtggt ggttgggtact tggcgagaga cggaggactt tcgaattgca 360
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-026-Q1-K1-B3

 <400> 38173

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 gtaactcttc ggtacgtta taaattagta catcacgcat cccggttagt tcgactcaat 180
 aacagggctc ctcgagtcg tcgcccactg ataccgggta attttaataa cgacgcactt 240
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<210> 38174
 <211> 438
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B4

<400> 38174

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aagtactgcc cactagggga agttaacgta gcattctcgg acgctcaccg tacctacata 180
gactcctata gcgtctgagc gcccggtggcg cgtctcccgc ggaacgcact tcaacgcttt 240
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aaggcttagg acctaagaag ggcgaccccc ccccgaaacg gtcattccact acaggattag 360
tcggcataac agtacctgaa taatatcgtg accgaccccc gccttcaaga cgccacctaa 420
cgcatgccga tcattcgt 438

<210> 38175

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B5

<400> 38175

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ctagccgccc ccgttctatc gtctcgcaag gatacacaaa accggcaccg gcatccctca 180
aggcctcttc cggaacggca gagccccata gggaattcct tactactagc cgtcgatata 240
gtctgaatct gatgcctcc tctgttagc cgtgggtctg gacaaatctg aagtcgattc 300
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<210> 38176

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-B6

<400> 38176

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tcctgtgtct cctaatagaga gttagccgtt tgggttgatt cctgagtgtg atcatgggtgc 120

tcctcattta aattagtaca aggcgcataa ttctgagcct gcatctggtg tgcgtagtcg 180

tcgttagggg actggaggat ctggcggtg gtgagaatgg tagggtgagt attagtattc 240

aatcgctgag ttccgcgaac gtgatcatta cgtagggtgc gagtgcggtg gatgtaacgc 300

gtcgcgagta ctggtcttag gtggtgtcgg a 331

<210> 38177

<211> 380

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-026-Q1-K1-B7

<400> 38177

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gtggtgggtg cttcggtagt ggtgtcgtcg tcgtcggtgg tgggggttgg gatggtgctg 180

gtggtggcga gtcgtggtga ggcgatgctg ctggcggtgt tgcgttctgg gcatgtgacg 240

ggtagtggtg tgctgtttct tgtggtgcgt cgtagtgggg cgtgtctgtc taatagttgt 300

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<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A3

<400> 38178

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gaccgaggta ggcaatacag aattactaga atcaaccgta gacacggacg tttagacagt 180

aaaagtaaag gaagaagtac cgagcagaaa agacacttcc gacaaagcag aaagacggac 240
 gctcgtgcgc gaagaagaga gtcgggccga agaccacaat tgggacgata ataggcacaa 300
 tctcagttga ggcgtttatt cgaactcgaa gtgcgtagaa aaagtctgca cttccgccaa 360
 taagacctta gtatccgccg aaatctcagc ggtaaagatt aaggtagggg aggagaaatt 420
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 <211> 429
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-025-Q1-K1-G7

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 tccctcgagg ctcacctcgc cggcaaaacc tatgtgtctg gtgactccat tactaaggat 180
 gacattaagg tcttcgccgc ggtgccgctc aagcctggcg ctgagtttcc taatgccgcc 240
 cgctgggtacg agaccgtctc tgcggctgta gcctcaagat tccctggtaa ggctgttggt 300
 gtaaactctgc ctgcgggatc agctcctgcg gcagctgctc ctgcggatga ggctgangat 360
 gatgatgacc ttgatctttn tggatgatgaa actgaagagg acaagaaagc agctgatgag 420
 cgtgccggc 429

<210> 38180
 <211> 455
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G9

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 ttgcactgta tgatatcttc caatcatcaa taggccccat aatatcagca tagcgtatat 180

tgtttcctcg ccagttgtac aattttgtca gattgtggta taagaaaagg gtacagcttt 240
 acagtactgt aaatgattca tggttgaggc atttctgggtg ttgaagctac atggaacatc 300
 gaccagatg tctaaacaag gtttttgcg cgcacatttg ccattctttt ttctaacatt 360
 cactgggtaa tcattgacac gttaaagagg atggacattg gaataagtcc ctaattcctg 420
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<210> 38181
 <211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-025-Q1-K1-H12
 <400> 38181

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 acatgtattg tctcactgag gacgcttatt tatgataata tcttattggt aaaatgaggt 180
 caggactaac atgctcatgc ttgtcttaga tggtaaggaa gtcagtagaa ctcgaagaca 240
 acatttcttt tgatagcata tgatattatc agattatttt tattgagaat gcctggattt 300
 tttgggggat ctgatatatg atgcactttc tcaggcactg cggtttatac agaattgttt 360
 tttagactat gtgctttatg ctcccccccc ctctcttttc catacaaaat gc 412

<210> 38182
 <211> 286
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-025-Q1-K1-H3
 <400> 38182

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 ctcggtgacc gaggcggctg ccgccagcgt gccgctgctg gcgtggcccc gcggcggcga 180
 ccaccgcgtg aacgccatgg taacggtgag cgggtggggtt ggggtgtgga tggagcactg 240
 gagctgggac gngaggact ggctggtgac cggggtggag atcgcg 286

<210> 38183
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-H4

<400> 38183

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ttattactgc aaacagaacg aaagggtgacg acctagtaat cacccatctt ggtgactgtc  120
tctggaaaga aaaaaatgag attgcagctg ctcattcgtg ctatttagtt gctgaactaa  180
atattgattc atactcggaa agcgcaagggt tgtgcctcat tgggtgcagat cacttgaagt  240
gtcctcgaac atttgccagc cctgaagcca ttcagaggac agaggtttat gaatacgcga  300
aggtgcttgg taattctcag tatatcctac taccctttca gccatataag ctgatatatg  360
catacatgc                                     369
  
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<210> 38184
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-H6

<400> 38184

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ctcctggggt gtttgggtcaa gggagtctac cactggcttc tggaatgcat catggaccga  180
tgtatgggtc tggatcctac aaggagcggc agtatggtag caaatttggg ggcactactc  240
caagttggag ttctgctggc cgcagatttg gtactttcga cttgagtggc aatcaacaaa  300
gggggagcat ggtatttggg agtcataatg gctctctgga gtttatgaat gagcaaaacc  360
gtgggccacg tgctacaaaa c                                     381
  
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<210> 38185
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-H8

<400> 38185

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aaccgcgccg gcccgctcta cggccacctc tccagcacgc actccacggc cacatcgatg 120
aggcttacct gggtagcgcg cgacgggagg ccgcagcagg ttcagtacgg aggaggcaag 180
tccggtactt ctcaagtggc aacgttcacg cggaatgata tgtgcagtag ccccttggtta 240
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accgggctcc agccttctca atcctacacc taccgttacg gaagtgattc cgagggttgg 360
agtgcacat acacattcag aatgccacca gctgcaggct ccgacgagac atcatttgtg 420
atctacggtg atatgggga 439

<210> 38186

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-H9

<400> 38186

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aggcctacgg tgccatagcg gactgctaca ccgagctggg cgacctgaat cgagcgggtga 180
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gacgagacag cgagtgcctt actttccgta cgttgagact tgcgttatga ccgtcttgct 300
aaactcgtg tacgacttgg atcgttacga gaacgattcc aatattcgta tatacacaac 360
tactgattta atgccaccag ctgcaggctc cgacgagaca tcatttgtga tctacggtga 420
tatggggaaa gctccgctgg accca 445

<210> 38187

<211> 194

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A1

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gccacggggcc tacgtcccggt cttatgaagg ttcgtcgcca cccttagtat ttcgccccta 120
tacgaggagg agaataactca gaaactaaaa ggactcttga gcgcaatcaa agggcatccc 180
gagaaataga aacg 194

<210> 38188

<211> 410

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 38188

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aaaggagggt gcactggctg aggagaacat gcgtggaatt tgctttgagg tctgtgatgt 180
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ggagatccag gcccagaaa atgcacttgg tggatatctac ggtgttctga accagaagag 360
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<210> 38189

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A11

<400> 38189

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ttccaccggg catcaaagga tgggtgactg gctgacgaga acatgcgtgg aattcgcttt 180
gaggtctgag atgtcgatct tcatgctgat gctatccaca ggggtgggtg tcaagtcatt 240

cccactgccca agacggtcac ctatgccttt catctcacgg tcaatccaat gctgctgtat 300
ccagtctacc tgggttagat ccatgcccc gaaaatgcac ttggtggtat ctactgtgtt 360
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<210> 38190

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A12

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tggaggttcg ccttggtttg tccaaggagc ctatctgcc tagcttcagt tgaggcagtg 420
aatgtagttc tgcggttctg ccgcacgttg atg 453

<210> 38191

<211> 463

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-026-Q1-K1-A2

<400> 38191

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gaatcgcggc ggaaagcaca gcgtcttata gaacgtcgca cgcgtagagg tcgcttaagt 180
cactaataac cgtatatggg aactaaciaa gtaacatact ccggacttcg tccgtttgga 240
cgacgactcg ccgagtttta agatcgagc agagatagac ggaatgagta ggccgacgtc 300
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gtccggggga acgacgacat agcctaggag agttctggca cttgtaaggg gataaccgga 420
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<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G6

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ccggacagga ccagctatcc cgggctgctc gcgcctctac ctgttcccc gcattgcatgg 180
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tctgcagcaa aggtagcaaa acttttcttg gataatatct ataagcttca tgggtatgccg 360
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actct 425

<210> 38193
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F1

<400> 38193

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caaggagtcg ttcaaggatc tgtctgactg gtggaagaag gccctggaga gctagaactt 180
agactctgtg aatatcatca accggctgca tgaca 215

<210> 38194
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F10

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gtcctacgat ccttcggcgc cacctgcgga ggcgtgggca ccggtgtcgc cgggtgcttga 180
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gagggagcta cccaagttct tgtgcggcgc cacgcttgcc gatgttggag gattgctcta 360
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ggtaatgatt gaat 434

<210> 38195

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F11

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acgtactcca aagggaagtc cgtgggcaac actcttagaa aatctatgat agtatctagt 300
atactgttca ggtagctgat ctgtacacc aactacttca tcctaattgct aaatatcata 360
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<210> 38196

<211> 174

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F12

<400> 38196

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacaaca gcac 174

<210> 38197
 <211> 353
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-025-Q1-K1-F2
 <400> 38197

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 atattgattt gagagagatg cctaataaga agctatctgc ttctgcacca ccatttaatc 180
 catctocacc atctgtactt agcccacttt ctggcaatgt tggctctccg gcaccaggtg 240
 ccattocagg agtagcacct tggcctgtga atgtatccct gcatactggg cattcaacta 300
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<210> 38198
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-025-Q1-K1-F5
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 gcgtcgaggc ggatctccag gagttccaag acttcgacga gttcgaggat taggctagcg 300
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<210> 38199
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F7

<400> 38199

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cgttctcgcg ctcatgtgca tcatcccgtc cacagcgccg cggcctgcac tgtcctcgcg 180
cgcgccccca agggacggtg tctccttcgc cggcgcaggc aacacgatac atcaacttct 240
taaagatcac ggccttcccg gaggactgct cccgcgcggc gtggagtcgt acaccctgga 300
cgagtcgacc ggcctgctgg aggcgcggct gtcggcgccg tgctacgcca cgtacgacaa 360
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aggcgtggag ggcc 434
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<210> 38200
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-F8

<400> 38200

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actgactcca cccacccgcc cgctgccttt tccggatctc gtcggactcg gatgcgccgg 60
accaccccg cccgccgccg cgcagcagca gcagagatga gccagcagct ccttgccaac 120
ctagtggaga tcatggagca gagaatgaag ttgatcgagc agaggagcgc gtacctccaa 180
gagcaaatca accagacagc cagccgcctc gccggaagag tactcgaggg ctaacaagga 240
gttccgcaag ctggagagca ccatggagtt gatcaaagac ctgagatcga aacaggagga 300
aatcgagggt ctcaaatttt tggtagcaaa tgatcatgaa gagaaagaca tgcgtgagat 360
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tagat 425
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<210> 38201

<211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-025-Q1-K1-G1

 <400> 38201

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 aagctgttaa ggtcatgcac actggtgccc tgagaaccga ggcaactatt cctgggtgggg 180
 aaacacctgc agaccttggc caggctttca agaaccacat gagcgaaatg ttcgcatacc 240
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 ttatggctat actgcttagt cactaccgtc catctggcac tatttttgcc ttcacagacg 360
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<210> 38202
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-025-Q1-K1-G11

 <400> 38202

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 ttaagcgctc gtgagctctc tccagtggct aaagattgca gatttgagtt atagtccaag 180
 aaacgggtgg tggccgcca tggaggtgag gtccgagcaa gggctgatgg cggtgaggga 240
 tctattcggt atgccaaaga gcccgccggc gccggtttcc gggccgccag cgtccgccgc 300
 catgcaaagc gtgcgcatgg cgtacacctc ggactgcacc gctttgttc 349

<210> 38203
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-025-Q1-K1-G12

<400> 38203

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caacgtgctt cattgtgggc ctagaagaaa gagaatcaac cgtacacttg atgcccaggt 120
gtagaatctc aacaaggctg tcatgtgggg ccacatccca cagcccttct ataaagaatt 180
cacgagctcg acccttttgt aaaagcatgc aagcccaggc aactatgttg aatccattcc 240
cgtaaggaga gaaagaagga tccagtgcct ttttgtctga aatgagttca agaagtacaa 300
ctccataact atacacatac gccttatcat aaacgcggca tgtcatcgca tactctggag 360
ctaca 365

<210> 38204

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G2

<400> 38204

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tgctggtgct gcctgtttgt tttttgtgta ctccctggac tacgcgagaa caaggttggc 120
taatgacgcg aaggctgcca agggaggagg tgaaaggcag ttcaatgggc ttgtcgatgt 180
ctaccgcaag aactcaagt ctgatggtat tgctgggctt taccgtggat ttaacatctc 240
ctgtgttgga atcattgttt atcgtggtct gtactttggg ctctatgatt ccatcaagcc 300
agttgtcctt actggcaacc tccaggacaa tttctttgcc agtttcgctc tggggttggt 360
gatcactaat ggtgctggtc ttgcatctta ccccatcgat accgtccgca aaaagatgat 420
gatgacatct ggtgaagctg tcaagtacaa a 451

<210> 38205

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-G3

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 gccctaaccg ttccgccgtcg cgcattcagag cactcgcgga agcgcaccta gtgccatggc 180
 gaagaagcgg aagcgcaccg acgcccccg c agaggcgacc ggcgagaga agcctgacga 240
 ctctgcgccg gcgcgcccgg agcgcacgct cttcggcttc aaggacccgg tccccgacgc 300
 cgagccccgc ttccggggcg ccgaggccgc ggtggcgccg ttccggaaca gggagaaggt 360
 actcatcacc tgctcccgcc gaatcacgta taggtgagtg ctccctgggt tttccgcttg 420
 cagtcttggt agatgggtga tt 442

<210> 38206
 <211> 255
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-025-Q1-K1-G5

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 tcttatttga taataatgtc gtttgcagggt tgatctgttc ttctacagag acccagatga 120
 agcaaaggag catgatgagg aagctgctgc ggccccctgag tttgctgcag tcaactgatta 180
 ccaaggagct gatcagtggt gtggtgacca gtggacctta tatgtgtctt taccatattt 240
 tgctcctact ggtgc 255

<210> 38207
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-025-Q1-K1-E8

<400> 38207
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 acctggtgaa gatccaagtg gttatgagct cgcaagtgag cgttggacac ctgtgcatac 180
 agttgaaagc atagttctga gcattatata aatgctctct agtccaaatg acgagtctgc 240
 agcaaacatt gaggcagcta aggaatggag ggataagagg gaggatttca agaaaagggt 300

caggcgcac gtgctgaaat cacaggaaat gttatgaaga aaatggaatt ctggggaagt 360
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 cttgtgtatt t 431

<210> 38208
 <211> 305
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-025-Q1-K1-D2
 <400> 38208

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 gcgggttgtt ctaangttgg gctagacacc tcttattaat cgctgactgg ttatgggaca 120
 tgtctctgtg tgatgctttc tgtggtatta ttgctgcaat agccgtgtaa tccatcgctt 180
 ctgcaatgaa gcgctcggaa gcatgctacg tatgttgtgt ctgtgggtga ttgtatttct 240
 ggtagtaaca gtgattgttc ctgaattttg gataatacaa gctcattcgc aggagtttct 300
 gttgt 305

<210> 38209
 <211> 212
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-025-Q1-K1-D3
 <400> 38209

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 aaaaaaaaaa aaaggggggtt taatttaagg tgacgataaa tctcatcttc aaactgtaat 120
 atactatagt gtacctaat taattactag tcatcgttta caacacgact atcgaaaaac 180
 tttggaatac ccaattaata tttctaagca ta 212

<210> 38210
 <211> 299
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-025-Q1-K1-D4

<400> 38210

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atgagcatcg gctcaggcga gggacatcag tgccacatca acatctcggt caacgcggga 120
aacctgtacc aagtcacgta cacttgcaat gcgcggaagt actccgtctt cacttgctac 180
ccacaagaaa ggcccggact acttggttga tcatacgcac atgacacacc ctgaaacgat 240
caccaatcac actagcttga catacactgt cctgacaact agatctatgg cattgggttg 299

<210> 38211

<211> 75

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D5

<400> 38211

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ttaccaacat ggggt 75

<210> 38212

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D6

<400> 38212

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cgcgcgggcg cgtgcaccag cccaccttca agatcttctg caaggccgac gaggggtact 120
gcctcacctg ccgcgacggc aacgtggtgc tggccccgcg caacccgcgc gacgagcacc 180
agcactggta caaggacatg cgcttcagca cccagggtcaa ggacgaggag ggcaaccctg 240
cgttcgccct ggtcaacaag gccactgggc tcgccatcaa gcactccctc ggccagtccc 300
acccggtgaa gctggtgccg gtcaacccgg agtaccagga cgagtcggtg ctgtggacgg 360
agagcggcga cgtgggcaag ggcttccgct gcatccgcat ggtgaacaac atccgcctca 420
acttcgacgc ctttcacggg gga 443

<210> 38213
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-025-Q1-K1-D7

 <400> 38213

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 atctcttatac ttagttttatt tatattatgg atggcatggc aacctggatt cagagaacca 120
 gtaggtactg aaaaaataat ccaaaatgat cgagtatcca ctgcccaggc tcgttactgc 180
 aatactgcct tcgtgaatcg tgcctctgcc tcccaatctg gcatggggca gtgggcctca 240
 gttcttccct caccactagc cccttttccc tttcaagtcc cttttgaaat tttctctctc 300
 tacaatttct tatacaaaag tgaatcgaat tctgggattt ttttaataaa aaaattccgg 360
 gtacagaaag acagtgcagg agatacgaac caaac 395

<210> 38214
 <211> 254
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-025-Q1-K1-D8

 <400> 38214

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 tcctgtacac caagcgtacg tgcaaataca aatacaatgg ccaccaaag catcgctcgc 120
 ctgctgcgcg tggcctgct gctgctgctc tctccccg cgcgcgtcgt cgtcgtccgc 180
 gcgcagcagc agcagcgggg caaccgtgc ccgacgaac cggtggcgga cctcaagggtg 240
 tgcgccgacg tgct 254

<210> 38215
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-025-Q1-K1-D9

 <400> 38215

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agtcgcgagc ggcaagcgga gatgaactgc gagacctgtc agctgaaaga actggagctg 120
gaactgacgg agatcagggg tgttctgcgc tgtattttgc acaccatatt cttccataga 180
accctcagcc tgggtcgcgc caaagatggt gactgtgatt tcttcgatat tacttatgta 240
caatgtgggc taccggaact agaaaaggaa gttgacgaat agatagacca gttcagtgcg 300
tgggtggaga aacacccaaa ccgcagaagc cagatctgcc tctccttttt cgacgagaaa 360
cacagacacc ctggatggtt tgtcaacaaa acagagcgca tctattggga gcaatggctc 420
atcaatttgc aagtcatggt ccccaaaaga 450

<210> 38216
<211> 400
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-025-Q1-K1-E1
<400> 38216

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cggcaagggg tgaccatggc ggagctaaag cggttgtcgg agagccgtga cctgacgcgg 120
attgagcgca tcgggtgcgc ctcccacatc cgggggctag ggttggactc gtccatggag 180
gcgcgcgata cctcggaggg catggtcggg cagctccacg cgcgccgcgc ctcggggctc 240
atactccagc tcatccgcca gggcaagatt gccggccgcg ctgtgtcctt tgcggggccag 300
cccggcaccc gcaagaccgc gctcgccatg ggtatcgcca agtcgcttgg tgcggagaca 360
cccttcgctt tcgtcgctgc ctcggaagctc ttctcgctcg 400

<210> 38217
<211> 267
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-025-Q1-K1-E10
<400> 38217

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agatcaataa ctcggaaga ccaacttagc ctatggtaga gcttgcttat aaaccaaact 120
acataaatat catgacgatc attccaactt acgacccatt gcccaatgaa ttacatagta 180

ccttagcctg tactacataa acgacatcaa gcttactact accattaagc tgcattgcctt 240
ataaaaaacag gcacactagg tctgtca 267

<210> 38218
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-E11

<400> 38218

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gtgaggtaga agagccttac catgccgcac ggtcccgtat cggaaggaag gaacacgcgc 120
gttatcggca ccttggaagg acggttcctt ccttccctgc gcctaaatcg ctgccctttg 180
atttcgctgt atcagatgct gctatgctat gctaggctct agtctggccc agggaaactgt 240
ggcaataatc tgtggctttc aagctggtgt tagaactctt gtactgcttg taagcttatg 300
tgggttttat cgtgcaagta ggtggtttga tgttttagtg tggataaaaa gcgatttcaa 360
gct 363

<210> 38219
<211> 421
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-025-Q1-K1-E12

<400> 38219

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acttgtctca gcccggggtc tgetgcgtct ggtggtggtg aaggggagaa attcgtgaga 180
tctgttcgg atcaggcgtg cgagctcggg aatcaggggt ttcacacata gcttcgtcga 240
tttgaatttg atgtactaat ggagtctaag ggtggcaaaa agtctagcag tagtcgttct 300
atgatgtatg aagctcccct gggctacagc attgaggacg ttcgnacctg ccgaggcgtg 360
aagaagttcc agtctgctgc ttactccaac tgcgcgaaga gccatcctga tatccctttt 420

<210> 38220
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-025-Q1-K1-E2

 <400> 38220

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cagacccgcc cctgcagcct gctgctgaca gcgcctcaac ggagaagggtg tctgctccgg  180
cgccggaggt aaggtcccg ggattcaggc ttcttgaga ggacacttcc gtgcacaaat  240
cccttggggg cggtaaaact gctgacgttc tgttatggaa agacaagaaa acttctgctg  300
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tgaccctgat atcccatgta ctgattgggtg                                     390
  
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<210> 38221
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-025-Q1-K1-E3

 <400> 38221

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ggctgctagg cgaatgggcc tactttgggtc atcaaatgca ggaattccac tactatatgt  180
gccacttgaa gttgttatgt tcaaataata tgggtgaaaac gagcgtctat tgggatctat  240
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cgtaatactt atagcataaa cactcaagcc actacaagta agctcctgct ctttgcttgt  360
ttccagattg atatgtcaag atacgcttgt ttcatctgag ctactgtta tctgaaaata  420
tatagactgc ctctgtcccc ttcactcactg ctgatgaccc                                     460
  
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<210> 38222
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-025-Q1-K1-E4

 <400> 38222

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 gcccgagag gaggaacgga agctgggtgct gggcaagtac gagctgggcc gcctgctggg 120
 gcagggcacc ttcgccaagg ttctactacgc gagggacctg agcgccggcg ccggcacggg 180
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 c 421

<210> 38223
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-025-Q1-K1-E5

 <400> 38223

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 aatgaacgct tgaaaatgct ccttgataaa acaaatgagc ttcttgaagg aattggaaaa 120
 gctgtacagc gacaaaaaga tgctgaacat gttagtaagc cagaaggagg gagtgaagtg 180
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 aatgcaggac gtagacttga tggtactgtt cattctattg aagaaaaagt aacagaacaa 360
 ccatctgtc tcgaaagtgg tgaattgaga ccatatcaac tagaaagtct ccaatggatg 420
 ctttctctat ttaacaacaa ttg 444

<210> 38224
 <211> 436

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-E6

<400> 38224

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 atgccttaat gaatttgaat ttgtcatcaa accaactggg tggaaaaatt cccaacaaga 180
 ttgggtgcat gatgtcgtg gcacccctgg acctctccat caacaagctt tctggtgaaa 240
 tcccatggag cttatcaaac ctgacatctt taaactacat gaacttgtcc tacaacaatc 300
 tgtcaagaaa gataccctta ggccgtcaac tggatacctt aaacgtggac aaccgcgtac 360
 tttgtggacc ttctcttcaa aattattggg caagaaatgg tagcttcatg cctgggtatc 420
 acagaagcaa taagca 436

<210> 38225
 <211> 117
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-E7

<400> 38225

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<210> 38226
 <211> 432
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-025-Q1-K1-B8

<400> 38226

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 cgcgcgggcg tgggcccggc gccccggccc gttgttggcc ggttggaacc ggatccttga 180

cgtgagcgac tggcacatcc aggagctagg cgggtgggcg ctggggcagg cgaagcacca 240
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 gtccgggatg aactaccggc tctacgtcga cgcgctcgac cccgccggcc gcaccgtgcc 360
 ctacgtcgcc gtcgtgtacg agcaggctctg gaccgcacc cgcagctcg ccttcttcaa 420
 cccggtgccc cg 432

<210> 38227

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B9

<400> 38227

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 ctatggatca aagcatccaa aggagaaaacc tccgagcaca tcgagcaccg aataaccatg 180
 gctggctcgtg acgcagaaat atagatcctg cttggctggt ttgaggatct ttaagtccgt 240
 ctgateccatg ccttggacct caacgtcagt tatatactct ctagtgtgtg catttcctct 300
 tgtttcaggt atttgtttgt cgtgctgcca atgtgtctcc aaagtccaaa ctgtatgtgg 360
 tcaccatggc attgggatga tgcgaaaaaa ttatgagcgt atctatgttc caatgtttgt 420
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<210> 38228

<211> 428

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-025-Q1-K1-C1

<400> 38228

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 cgcgagggca cggcgtcgtt gctcaactcc atggtgaaca acagggtccc cttcacgacg 180
 catgaggatga aggacgcatt cgggtgctgcg ctcaactctg gtgacgacgg cgccgccgcg 240

gcacaggcgc gtctgttcaa gaaagcaa at gaggggcacg tcatcaggca gaactagcta 300
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atnaaaaa 428

<210> 38229
<211> 322
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-025-Q1-K1-C10
<400> 38229

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ttccaacata taccgaatac atacacctcc atatacagtg gtgataacta caactttacc 180
atatacagca catacacagt gataccaatg acacatctac attacataaa caaccaaatac 240
atccatcttc ttacattata caattcaact tacctcataa tagccaccaa aattagttac 300
taaaactact gcaacatgct ta 322

<210> 38230
<211> 429
<212> DNA
<213> Zea mays
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<400> 38230

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gcaacaacaa cgccggcatg ctggcggttcg acaagatggg gagctacggc aacaacggcg 120
gcggttaatac caacaacaac agcaacggcg tggaggtgaa gagctacttc aacaagtccg 180
ccgggagggc ggcgagcaac aacaacaaca acagcagcca cgccggcggc ggcaacaaga 240
agggcggcgc cggggagtac ggcaggaaga agcagcgaag gagcgagggc gcggcggcgg 300
cggcggccac ggacaagcag cggttcaaga cgctgccggc gtcggagggc ctgccgcggg 360
gccaggccat cggcgggtac atcttcgtct gcaacaacga caccatggac gagaacctca 420

ggagggagc

429

<210> 38231
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C12

<400> 38231

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aaaaaacagc tacttatata attgcatcaa caaacaacaa agcaccaact actacaacaa 120
caatacatca tatgatgaac caaataattc ctcaacttcc aataaccaat ccaat 175

<210> 38232
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C3

<400> 38232

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cgcgtcttct tcgacatgac cgtcggcggc gccccggcgg gccggatcgt gatggagctg 120
tacgccaacg aggtgcccaa gaccgcggag aacttccgcy cgctgtgcac gggctagaag 180
ggcgtgggca agtcggggaa gccgctccac tacaagggct ccaccttcca ccgcgtcatc 240
cccagagttca tgtgccatgg cggcgacttc acccggggca acggcaccgg cggcgagtcc 300
atctacggcg agaagttccc cgacgagaag ttcgtgcgca agcacaccgg ccccggtgtg 360
ctctccatgg ccaacgtcgg gcccaacacc aacgggttcc agttcttcat ctgcaccgtc 420
gcgacccctt ggctcgacgg caagcacg 448

<210> 38233
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C4

<400> 38233

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ccactgttcc tcccgtcgcc gatgactgcg accagctgcg caaagcattc caaggggtggg 120
gcacgaacga ggcgctcatc atctccatcc tcggccaccg cgacgccgcg cagcgccgcg 180
ccatccgcgcg cgcttacgcc gaggcctacg gcgaggagct cctccgctcc atcacggacg 240
agatctccgcg cgacttcgag agggccgtga tcctgtggac gctggaccca gcggagcgcg 300
acgcggtgct ggccaacgag gcggcgcgga agtggaagcc cgggaaccgt gtgctcgtcg 360
agatcgctg cagcgcacc ttc 383

<210> 38234

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C5

<400> 38234

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gtgcacaact ggctgggccc cggagtctgc ccaaagggtt tggccaaggg tttcagatgc 120
ataatgagca accaaggcgt ctggtacctg gaccacctcg acgtcccctg ggaggacgtc 180
tacagcggcg agccgctcgc cgggatcagc gacagagagc agcagaagct ggtgctcggc 240
ggggagggtct gcatgtgggg cgagacggcc gacacgtccg acgtcctgca gacaatctgg 300
ccccgagccg tcgcagcggc agagcgtctg tggagccagc tggaggccat atccgcccag 360
gacgtcgaga cgaccgtgct gtcacggcta caccgcttca ggtgcctgct gaaccaccgt 420
ggggtcgccg cggctcctgt cac 443

<210> 38235

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C6

<400> 38235

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ggtaaacaag cagaagccaa tctggatgag gaagcctgag gagattacca aagaagagta 120

tgctgctttc tacaagagct tgaccaacga ctgggaggag catcttgccg tgaagcactt 180
ctctgttgaa ggccagcttg agttcaaggc tgtactcttt gtgccaaagc gggccccctt 240
cgacctcttt gacaccagga agaagcagaa caacatcaag ctctatgtgc gacgtgtctt 300
catcatggac aactgtgagg agctgatccc agagtggctg agctttgtc 349

<210> 38236

<211> 73

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C7

<400> 38236

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<210> 38237

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C8

<400> 38237

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ccctgccag cccttcgccg gtcctttccc aggccttcga cgcgtccttc gccgtcgaag 120
agtcgccagc agcaccatgc ccttttctcg gccgcgcgtt ggtttcttag ttagactggt 180
tgggggtccg ccaagctgct gtcctccttc cegtgcattt gcagctgtca gagctcaaaa 240
gattaagctt cccaagaaaa aaaggcgatt agatgaagtg tgcttagaaa ggtttcaaca 300
atacagtaga acatacatcc agtcatggat tcttcaaggc aaagtcacg tggatggaag 360
agttgtgaat aaagctggaa cacaagtatc tgacaagtct gtcacgaaa tcaaggctga 420
aatcccaaaa 430

<210> 38238

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C9

<400> 38238

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gttagctctg ccgtgcctgt cgaaaatggc aaattccttc tatccgcaaa aaggaactgc 120
cgtgcaacat atacagaata tataatatca ataaattctg gtgatacatc taggtgtaca 180
agtaacaaca catacattgg gaaattaagg tcaaatttcc ttggcacaaa atttgtaata 240
tacgatactc atccgccata caatggaact agtcaaacag tggcagggaa aacaagtcag 300
agattctact ccaagaaggg atcaaccaag gtttcttgca ggtggtacag tattgcacaa 360
atctcatcag agctgaatgt cttgggaact cgaggcccaa ggcggatgaa ctgtgtaatg 420
cactccatcc cagcttcatg ccttgaggct tgtggcaatg 460

<210> 38239

<211> 450

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D1

<400> 38239

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gttgggtctg ggacaccatg gctccgatga agctgtacgg ggcggtgatg tcgtggaacg 120
tgacgaggtg cgcaacggcg ctggaggagg ctggctccga ctacgagatc gtgcccata 180
acttcgccac cgccgagcac aagagccccg agcacctcgt ccgcaaccog tttggtcagg 240
ttccagctct gcaggatggt gacttgatc tcttcgaatc acgagcaatc tgcaagtacg 300
ctgctcgcaa aaacaagcca gagctgttga gggaaggaaa cctcgaggag gcagcaatgg 360
tggatgtttg gatcgaggtg gaagctaacc agttcaccgc tgcaactgaat cccatcctct 420
tccaggtcct catcagtcct atgcttgggg 450

<210> 38240

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D10

<400> 38240

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agcagcagct gccaccgacg cacgcagacc ggggaataaa tattggtatt ggtagtgtga 120
tatctataag aagtcaagat ggtgaagttc acagctgaag agtccgtgc catcatggac 180
aaaaagaaca acattcgtaa catgtctgtc attgctcatg tggaccatgg caagtctacg 240
cttacagatt cccttggtgc agctgctggg attattgccc aggaagttgc tggatgatgtt 300
cgcatgactg atactcgtgc agatgaagca gagcgtggca ttacaatcaa atctactggt 360
atatctcttt actatgagat gactgacgag tcactgaaga actacaaggg tgagagagat 420
ggtaaccaat acttgatcaa ccttattgac tcgcctggac acgttgattt ttcttc 476

<210> 38241

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B7

<400> 38241

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cgccgacaag gctaaggga agtttactgc cgatgacgtc gctgccgcg ccgctggtgg 120
cgccgccacc ggcgctctc tccaggagat cgactagact cttcacggtc atctgatggt 180
tgtcgtaccg ccttttcctc atctctttag tttttgtac caattgttat gtgatagagg 240
tcttatgtta ttgaaaact gctctgtgcc tggatgagag ttttggaaaca taatgtgaac 300
ctgtgtgtct gtgacctgag ctttgaagat ctcattatgt gggt 344

<210> 38242

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A10

<400> 38242

cccacgcgtt cgtccacgcg tccgcttgat attgtcaatg tatgaggatg gcggtacatg 60
gatgggttta gtgctccgtt tgcagctatt atggctattg gtatgtggac tgtaccatct 120

tcaccaagat ggctacttct cagggcagtt caaggaaagg cttcttttga ggataataga 180
tagaatgcaa ttcaagccct tacaacattg atgggccgca cagcaagtga aaaggctttg 240
gcagatgatg ttgacgatac aattgtctct attaacgctg cctacgcagg acacgaagct 300
gaaggaaaacg tatatgatgt attcgaagga gctagcttga aggccttcac tattggctga 360
ggtctgggta tgcttcagca gataacaggt caaccgagtg ttctatatta tgct 414

<210> 38243
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A11

<400> 38243

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gatgtgggtc ttgctgagct gcttcttggc cagcctctct ttcttggcga aagtgtgtg 120
gatcaacttg ttgagataat aaagggttctt ggtactccaa cacgtgagga aatccgttgt 180
atgaatccaa actacactga gttcagatct cctcagatca aagctcacc atggcacaag 240
attttccaca agcggatgcc tccagaagct atagatctcg cttcacgttt gctccagtat 300
tcaccaaata taagatgcac tgctcttgaa gcgtgtgcac atccattctt tgatgagttg 360
cgagagccac atgcgcggtt gccaaatgga cggccatttc cttcactgtt caactttaaa 420
caggaac 427

<210> 38244
<211> 136
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A12

<400> 38244

cccacgcgtc cgagcatatc gagaagaatt tagattaaac aaaaatgcct gaaaatatgc 60
gtaaggtaat gatgctcgtt tttatggaac acatatgatg tcctttgttt aagtcgtttc 120
cagtaaatat attatg 136

<210> 38245
 <211> 450
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-025-Q1-K1-A3

<400> 38245

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 cctcgctgcc tcatcaattg gggatccaat ctttgctgct gccactcggc gatccgatcg 120
 ttctcgatca aggtcgggtg ccatggctcg ctgccgccat cacctnctcc tccctcccg 180
 cttacttgcc ttggctgctg ctgctgcgcg gcaggcgcag agtcatgggg aagcctccgc 240
 cgtcttcacg gatgcctcgt cgcaccgcta ccttctggac cagcaagccg accaccagga 300
 cgcttcaatg tcgttaaagtg aagtttctgc ggttgtttct gtcttgcttg gttttgcacc 360
 gtcaacatcc ctaccagcta tttcttcttc gaagttgaac aaagttcttt ttctaatcc 420
 atttgataga ccgctgctg ttttctctgt 450

<210> 38246
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A5

<400> 38246

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 agagtgtcat ctttgatgaac acacgccgca aggtggactg gctcacggac aagatgagga 120
 gccgggacca caccgtgtca gctacacacg gtgatatgga ccagaacacc agggacatca 180
 tcatgagggg gttcagggtc ggtctctctc gtgtgctcat caccaccgac ctgctcgccc 240
 gtggtatcga cgtccagcag gtctcacttg tcatcaacta cgacctgccg acccagccag 300
 agaactacct gcaccgcacg ggccgtagtg gtcggtttgg aaggaaaggt gttgccatca 360
 acttcgtcac ccgcgacgac gagcggatgc tgtttgacat ccagagggtc tacaacg 417

<210> 38247
 <211> 436
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A6

<400> 38247

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tcggggctaag acgattcgag gcacgagcga agatgccgca gcggcattcg aaaaacaaca 120

acgacctcgc cttcttcacg tacgaggaga agcgtaagct cgggtacggc acgcagcggg 180

agcgccctggg aaaggactcc atcaagccct tcgacgcctg ctgcctctgc ctcaagccgc 240

tcategggccc gctctgctgc cccaagggcc acacattctg taaggagtgc atcctcgagt 300

gcctcctctc ccagaagaag gacatcaagc gcaagctagc agcacatgag gccagaaaa 360

agcaagagaa agaagaggag gaagagaagc taattctgca gaaggctaag gagttggatg 420

cctttgatca gcagaa 436

<210> 38248

<211> 448

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-025-Q1-K1-A7

<400> 38248

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ctggcggtgc tggacaccaa catcctctgg gtgaaccccg actgcggcct caagacccgc 180

aagtacacgg aggtcaagcc cgccctgacc aacatggtct ccgccgctaa gtcacatccg 240

accagctcg ccagcgccaa gtgagcacct tttttttgcc tttttcgttt ccgaggaggg 300

cgtcgtcgat gccaatgtgt ttccaataaa cagggtgtg cccgccgttc tgttgtactc 360

cgtctgtggt taggttagta gttttcttga tctcgcccc acgcggtacc tgttttacta 420

ctctctgntt ggtggtttct ggagcaag 448

<210> 38249

<211> 361

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A8

<400> 38249

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aatgagttca gtcatttttg tcattctctg tctctctcca ctgagattca acacgttatc 120
agacactttg ctctccaacg aaggccatca tcgtgaagtg cactgcacac accagtatgc 180
tacacggccg gcggtgtggt aactgctatc atcatccatg acaagatgaa caagcaagat 240
cacgattagc gtttgcagac cgcgacgaga ggcagcacgc cagcgtcgcc aggccggact 300
cgctcctgcg cgacactcag tgagtaacct attacgaacc taaagcaata tcgtctctcc 360
t 361

<210> 38250

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A9

<400> 38250

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gtttattgat ggacatgtta agcctgttct agggagaaag attaactgga tgaagacagg 120
gatcgttgag agtgatctgg ttctaacagt tagtccacat tatgttaagg aactcactta 180
tggcccagat aaagggtgtg agttggatgg tgccttcgc acaaagcctc ttgaaattgg 240
aattgtaa at ggcatggatg tttatgaatg ggatccttca acagataagt acaccagcgt 300
gaaatatgat gcaacaacgg taactgaagc aaaggctctc aataaagaga ggttgcaagc 360
tgaagttgga ttgcctgtgg actcgagcat cctgtttata gtttttgcg ggcgtcttga 420
agaacagaaa ggtctgaca tactca 446

<210> 38251

<211> 271

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B10

<400> 38251

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tcacaacaca aacctcccaa cacatccaac acctaataat catgtctcgt catgaccac 120
acctatcaat acttcctaca cattttccga atcttcaa atcttttgaat catccttata 180
acctaaacct ccattaccta ctacacagta tctccatata ctctgaccc acatattccg 240
acttcctcct accaattttt ctccaaaacc c 271

<210> 38252
<211> 470
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-025-Q1-K1-B11

<400> 38252

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gacccgaacc ccaacgatgc cccgtcgtc ccagccgaat ccgcgccag actcgccgcc 120
ctctcccttt gtggcaccag ggaccttccc cgggacttcc acaccgccga gatcctcgac 180
gacgacgagg gctacctcac ctccgcgtcc agaggcggga gcagcacctc cgcgtggaag 240
gaggcgcccg agggactcca cgacgatgac aaggatgggg acgatgtctc ccagcccagc 300
cccagaagca gcggatacgc tggcgagcgc ggaagcagcc ttgatgacga cgccgacccc 360
gaccccgacc ccgaccagga ttgggcgcgc ggcaagaagc atccncacga ggacgatgct 420
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<210> 38253
<211> 165
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B12

<400> 38253

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gctcgagtga tgtttgagga accagtgatc gtgttgatgg tgctgaacat tggaacctgc 120
agtacagtgt agcatgatgc ttgcttgctg ggccacggcc cgttc 165

<210> 38254
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B2

<400> 38254

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 gcggtgcacca gccaccttc aagatcttct gcaaggccga cgaggggtac tgcctcaccg 120
 tccgcgacgg caacgtggtg ctggcccccg ccaacccgag cgacgagcac cagcactggt 180
 acaaggacat gcgcttcagc acccaggtca aggacgagga gggcaaccct gcgttcgccc 240
 tgggtcaacaa ggccactggg ctgcgccatca agcactccct cggccagtcc cacccggtga 300
 agctggtgcc gttcaacccg gagtaccagg acgagtcggt gctgtggacg gagagcggcg 360
 acgtgggcaa gggctttcgc tgcattccga tgggtgaacaa cattcggctt aacttcgacg 420
 ccttcacagg cgacaagg 438

<210> 38255
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-B4

<400> 38255

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 TTTTGCATCA cttatgagta caaagacata agacatcggt atctatTTTT cagcaaataa 180
 aacactggca aacaacgaaa atttttatca tatcggaata ataaacacta ctaagctgta 240
 ataacctgcg agtgtaataa gaaccaaaca aagaaaaaaa gaagatccag cctaattag 300
 cactaactac ttagctagcg gtagccatta ggcgattatc aagcgcattc atttcattgc 360
 atatcggggg catggatcac ggtctccggg cttggggcct gacaaacacc gggagagggc 420
 ccca 424

<210> 38256

<211> 464
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-025-Q1-K1-B5
 <400> 38256

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 ttgagactga gcgcatatta ctccggcgaa ttcaagctta ccacaaaaac cagtaagcct 120
 cctcgaacta acataagaga ttacacatcc atacttccca aggctaccgg ccactaagag 180
 atccagattt caaaacatta catttgaacg agactttgga tgaatcacat tagcttgcaa 240
 aatacgataa ccagtaaagt gagaacatta catttgaacc agactttgga tgaatcacat 300
 cccacatggc tttcaaaata actctgtttc gaccagatca gttgctccaa caaatatggc 360
 gatagccgaa caatcaagt ccaatatcat cttcgaagca tcggaccagg cttgaagtac 420
 cctacaaagt tggggatgtg actgctccat tgtttcatgt gaac 464

<210> 38257
 <211> 496
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-024-Q1-K1-H9
 <400> 38257

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 tggggcgtag actgcgtttg acttggctga atttggttaag tttgttatcc ctaagactct 120
 tgtcctcatc gacaaaatta ctgagaaggg gaagtcggcc actgatgcta agcaccctcc 180
 tcctcatgcg tatctggaga tttgtgatac tcgtggagag atccttcggt tagtgattgg 240
 tgatcctgcg tcgctttatt agtagatgtc gttaggctcc atcttggttg gtcttcatat 300
 gactcatagc aagaccgctg gggatgataa tgaggagtcg agtcgtactc tgcttgggcc 360
 tagtactggt cctgctgtgc ttagtcgaat gtgcttgagt tcgggtatga gaggtagtta 420
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 cttacgcaag tcccc 496

<210> 38258

<211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-024-Q1-K1-G6

 <400> 38258

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 ggaccaatct gatgaagtgc tggctcgtgg ttccaatgat cagatttatg acatcttcca 120
 gctttctgcca tctaatatcc acgatgcagt ctctctgct accatgccac ctgaggccat 180
 tgagattacc cgcaagtaca tgaacaaacc agtcagacta tcttgtgaag agagattagc 240
 tcacccttga gggcatcaat catatctatg agaatgtgca caatgaatac ttgaagctgg 300
 acacactgtg tgacctgtat gagaccctga ccattatcca tagtgtatat ttgtca 356

<210> 38259
 <211> 215
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-024-Q1-K1-G7

 <400> 38259

 cggacgcgtg cgcgacgcg tgggaaaaat aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aagaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaata acaacaaaaa aaaaaaaact aagaaaaata taaatacaaa gacacataaa 180
 gcccctcaga ataccacaca atttattaac aaacc 215

<210> 38260
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-024-Q1-K1-G8

 <400> 38260

 acgcgtacag agggcgcggg cgccctccca aggtcgccat gacctccgcc aaggcctccc 60
 ccgccgaggg ggccaagaag gcggctgctc ctgccaagaa gggaaaggca gcggcggtc 120
 ctaagaaggt ggcaaccccg aagaaggctg ctgctgctgc cgccccggcc aggaagggcg 180

tggccaggaa ggccaagaag tagtctgcct gccttgtcgc tggcgagatc cccccctcaa 240
 ttccgcctat agattcccct ctttcatgga ttttgatcca atcgtaatat tgtcagtagc 300
 tctagattcg tcggtagctc cagcatgagt gtcggtggta gttctgtgcc tgtaaaaact 360
 tgggatagtt gatcgcggtg gatcagccgt catgctcctn cagtctctat gaacaagcta 420
 agctataata gtatttttgc at 442

<210> 38261
 <211> 470
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G9

<400> 38261

ggacctttgg gctgatttat gtgcttgttt atgtgcttgt ttatgtgctt gtcagtcaaa 60
 gtaataaggt agtagtataa gtaagaatgg atattcttct ttcctgttcg cgactacgct 120
 gctccgtcgt ggtggtaagc gtgggcgtgg tcttagtcgt cttcgtggta gtggacgtaa 180
 tggtcgtggc acgcatttcg atgcggagat tgttggttatt agtagtgcta agattatggc 240
 ttctgttttg ttgattatta aggttagtgt tgggtggtcct gaggtgggta ttgaggggtg 300
 tggtcgtgat cgtaatatcc gtaagcgtgg tattagtcgt ggtcgtcttc gtcgtagtcg 360
 taatcgagtt ggtttggtct ggtgacggtg tatgagagct gagaggatga tgatgaggag 420
 gtgcacaaca aacacaacag tgggtgcttag caacaagac ttcgctaatac 470

<210> 38262
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H1

<400> 38262

cagacgcgta gcttctagcg ccatcacccg aggaataaga ccacaccatg ctgcgttacg 60
 cgggcaggat gctttcggct tccgtcttct gacggcgcac tcaggcagcc gctaagggac 120
 ctcttgacgg agatcgcgcc ccttatcggg acgacgattg tgctttacac cgtaaaccaa 180
 cactgctttt catactctac atccagtatg caactgccag gaggtcctct ttaactgaga 240

cacttgcccc aggaaaccaa gaagctgggc tatic

274

<210> 38263

<211> 435

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-024-Q1-K1-H10

<400> 38263

tttgggctga tttatgtgct tgtttatgtg cttgggttgca taataccagc gcactcctcg 60

tagtacatac ctgcataggg gtggtgttat ccgaaaaact actcgttctc tacttatcgg 120

aatagacgat ggtcacacta cgtagaataa acctgaaggt ggccgagtag gttagaaaca 180

cgcgctctgtc cggactggaa ggttaactaa ccacgtcgag aagagtcggt aaacccccacc 240

cgttaaacag cgacacgtac acatcgagca acacactccg cttcgactc ntacgcagga 300

agatctccac aagactaaga ctcttatagg actcgaacgg tagaacgcta ttcttcataa 360

ctcgtagttc taggatcatc cgaggcgctc taatcttcgc gatcggaggc agcggagtcg 420

ccttcgcaaa ttacg 435

<210> 38264

<211> 483

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-024-Q1-K1-H11

<400> 38264

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tgggcgttcc gattaatcca ggaacccggc gcctcgctct cgtcgatagc ctaaattcct 120

tagtacgctt gcccggggag tgtacaaaga tacgaatcgc gaggaacgac ataagcatag 180

catggaaacc tgatagcact cgtccgcggc ctaagttggg ccgaataaccg aagacagtag 240

agcccggtta cgtaccagac gactgcggc atcggagaaa cacctggcgc agtcgcccgc 300

cctcgccctt gccctcctta gtagccattc ggcctatca ttctaaccgc gcttttctac 360

gagctacgat tgcaccctag agcccacgcc gggttacctc gtatctcagg cagttgtaat 420

cggtattacn cgcgagagcc aaatcacggc cgccggccgt accactctcg cggttcgcga 480
cac 483

<210> 38265
<211> 486
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H12

<400> 38265

gaactttggg ctgatttatg tgcttgttta tgtgcttggt tatgtgcttg cttatctgct 60
tgtttatgtg cttgattatg tgcattgggtg atttactgat cacggaagga aggtgtgagt 120
tggaggtgga tgggtgaaag gttgggggtt cattgatgct ggagttgggtg tattcgtagg 180
gttagttggt gtatgagcat gggcatggta tgccttaggg tttctgatac ttctttgctg 240
ggcctttgta gatcgttttg ctcatgggt ctggtggtgg tgggtgggtg ggtggtcact 300
ataattagaa gtagctgcat gtgttcgtgg agatgcatca tgtttagggg cattagggtg 360
cattagggtca cggcttcgcc gtcgaaggaa gattcgcgag aacgacgtgc tctttacgcc 420
gcggttctgg tccaagtcgg cgctcgccca caatcgggcc cctccgggc gttaccttac 480
ggccta 486

<210> 38266
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H2

<400> 38266

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acgatgctga gatggaggta cgggagcata tcattatggc tctgacgacg gagcaccgag 120
acggacacta tcgtacctct tgactgaaat cgcaaccctt atcgagacaa agactgtgct 180
cgacaccgta aagccatgcc gttattcata cactatatct agtttgcac tggcatgagg 240
tcctctttta ttgaaacact tgatccatgt atccataaat ctgggctatc ttagctagta 300
tctaataaaa atgatatgaa gaatcctgac atattcacag cccatgatta gtacaatcat 360

ctatcaaadc ttactttctga taccgtcttg catgcattgg ctaaagatga tcttaaagac 420
gaaaggatca tacattcatt aattactg 448

<210> 38267
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H3

<400> 38267

gccctactgc caccgcgccg aacgccatgg tcgagccggc agagcaccgt ccagcggagg 60
aggaggaggc cgcggcgccc ggcgaggatg aggacaccgg cggccaggtc gcgcccacgc 120
tgaagctgga ggaggtcgcc gttaccaccg gagaggagga cgaggacgcg ctctctggaca 180
tgaaggcgaa gctctaccgg ttcgacaagg aggggaacca gtggaaagag cgcggcacat 240
gcactgtgaa gctgctcaag cacaagaca ccgtcaaggt ccgtctcgtc atgcgtcagg 300
cgaagacgct taagatctgc gcccaaccatc tcgtggtggc gacgactaag atgcaagagc 360
acgcggggag cgacaagtcg tgcgtgtggc acgcgcttga ctctggcgac ggcgagcttc 420
aagaggagat g 431

<210> 38268
<211> 220
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H4

<400> 38268

ccaagcggac gctgtcgggtg tgcgccgtct gctcgtccta ggaacgaccg acgagcgggtg 60
ctgcgcaggc agaagccatt tgcacgcgtc cccctttcag ctttgttgcg ccagtcacca 120
gggttttgtc tttgtttctg tcgtccgaat ggagcagagt gtgatggtga agtgtgtcag 180
aaatagatcg gagaaaaatg aaatagaaag cagcaacagc 220

<210> 38269
<211> 486
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-024-Q1-K1-H5

<400> 38269

cggacgcgtg ggcagatccc aatgcaggag ctatagttcc agcgaataag tctaagaggt 60
 cggcagagca ggggcaacgc acaatcaggc gcccgttctc tgttgctgaa gtagaagcac 120
 ttgtgctcgc agtcgaaaag cttggaaccg gaaggtggcg agatgttaaa cttcgcgcggt 180
 ttgacaatgc gaagcaccgt acctatgttg atcttaagga caaatggaag acgctgggtgc 240
 acaccgcgag catctcgccg cagcagcggc gtggcgagcc ggtgcctcag gagctgctcg 300
 accgggtcct ggcgggccat gcctactggt cccagcagca agccaagctc cagcctaaga 360
 cgccccgct gctggctgaa gctcgcttgc tcacctaata aattcgatga tcttggtgta 420
 tggcctnctn cgaggccgat gcagcccttg tataaagtca gtaagtcaat cagtcctttt 480
 acagga 486

<210> 38270
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H6

<400> 38270

tagccacgcg tccgcgcaag ctgcctatga aatggctccc cgacatgaac cccaacaaca 60
 tgaaggaggg cgaggacaag ttcaagcaga tctcggaggc gtacgaggtg ctgagcgacc 120
 cgcagaagcg cgcgggtgtac gaccagtacg gcgaggaggg tctcaagggg cacgtgccgc 180
 cgacggggcg cggcggggcg gtccccggca gcgcaacctt cttgtccacc ggcgggcgacg 240
 ggccgacggt gtcccggttc aaccgcgtgc aacgcggagg acatcttcgc cgagttcttc 300
 ggtggctaca gcctcttcgg cggtatgggc ggcgatggca tgggcgggcaa ccgcatgggc 360
 ggtgggatgc ctggcatgcg gagctgctgg acgaggttct gctggtccat cttaggtgac 420
 gatata 426

<210> 38271
 <211> 453
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H7

<400> 38271

ccaaaccggc aaaccctaata gacctaatacc ccatcccccta gccggtagcc gccgagcaaa 60
cgggctcatc cgatecggta tccactcatc ctcatccctt gccattcga tccgatecgt 120
catctcatcc tcatcccta cccgatcaga tccctgtct atccgccgag caccaccagg 180
cagcaggctc cagtcgtcga gcaccagcag gagcacggcg cgtgcccag taggagcacg 240
gccaggagga cgacgcctgc atcctgcctc ttctcctctg ctactggagc ctctactgct 300
aggagcacgg ttaggaggac gacgcctgca tccagcagga gcaccagcag gaggaggacg 360
cccatgctgc tgccgttgag cgatgatctg atgcgcccc atcatggctc ttctgcttcc 420
tcgcgggctc gccttgatct actgctgctg gtg 453

<210> 38272

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G5

<400> 38272

cccacgcgtc cggctgcgta gacagtcctt tcgccctgat aacatcaaga tgtttgttct 60
tgacgaagct gatgaaatgc ttctcgtgg ttcaaggat cagatttatg acatcttcca 120
gcttctgcca tccaagattc acgttgaggt cttctctgct accatgccac ctgaggcctt 180
tgagattacc cgcaagttca tgaacaaacc agtgagaatt cttgtgaaga gagatgagct 240
gacccttgag ggtatcaagc agttctatgt gaatgtggac aaggaagact ggaagctgga 300
cacactgtgt gacctgtatg agaccctggc cattaccag agtgtcatct ttgtcaacac 360
ccgccgcaag gtggactggc tctactgaca gatgaggagc agggaccaca ccgtttctgc 420
cactcatggt gacatggacc agaacactag agacatcatc atgagggagt tc 472

<210> 38273

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F1

<400> 38273

ctcaactctc gcggtgctcg tccttaaccc ttctccct cccgatgcgac cctccgtccg 60
ggcgaccgtc gacaccagcc tcctacctcg cgcccaccgt cgggatccgt ccctactcgt 120
ctgcgcccgc ctggggctag atttctgaga aaatggcgag aagtgccgga actaggaggc 180
gtgtggctcg ccagctcaag tccacacatc ccattccttc ataccgatgg aagtcaaagc 240
ccatgaaaaa gccgatgaaa aaatgcaacc gaaagcaagt gttgccaacc ttgcaaaaga 300
tggactggga agatgccaat cgctctgtgt gcatggaata cccacataat gctgtgctca 360
tcctttggtc ataccatgat aaggggtgtc gtccatatat gtgtg 405

<210> 38274

<211> 184

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F10

<400> 38274

cttatgtcga acaatcattc ttctgcgttta gatggcatag atctttttct taattctatc 60
ttatcctcgt tgatgactct cttgaaagta ctcttcttta gtcacgatca tcatgtcgtc 120
ctagactgtc tataggtgag gatttactaa tattgtgatt cactattcta cacttttaag 180
ttcg 184

<210> 38275

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F11

<400> 38275

ttggttggac ctttgggctg attatgtgct gttatgtgct gttattgctg cctgacctga 60
tcgtacgtat tgtatggttc tcgcgaccat tctgatctga tcgtaccgat tgtatgttgg 120
agtgtcaatt tggcggctaa gttgtttggg tccgtaagtg tcttctatg agctgagttg 180
gatgtttgtg catagtgggt gatggaggga tagattgtgg gtctgagcgg agtttgcct 240

ccatatcttc tgccggaatg agctagctaa gtgaagttcc cctctagttc ttcattgatgg 300
gatatgtcag tggtcgcctc tctgccgtgt ggtc 334

<210> 38276
<211> 216
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F12

<400> 38276

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cgaccacttc agtcatatcg atcggagtag cgtcccgta tttgtgagca ttgagtccac 120
cgggctcgta gtcgtcgaca cagacgaaga cctcgtcgag aacgattatg catgagatta 180
cgaataattt ggtcaaggga gttcagtgag tactga 216

<210> 38277
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F2

<400> 38277

gatatcacta ggaggagac cttcaaccat ttcgctagat gcttagaaga tgcaaggccg 60
ggtgcagggtg ctaacatgac tgcgacgctg attggaaaca agggagacct ttctcataga 120
cgggctgtca gctatgatga atgtgaacaa ttatccaaag agcatgctct gctcttaatg 180
gaggcatttg ccaaaactgc acaaaacatt caagaggcat tcattaagac cgctggtaca 240
catatacaaa accattcaag atggcctatc cgaagcatca aatgactacc acggcatcaa 300
aggactctac acaggtccca acttatctgg acgtggaact ggct 344

<210> 38278
<211> 233
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F3

<400> 38278

aataggacta ggaagtagaa cctacaacca tttcgtatga tgcgtagaaa atgcacggcc 60
 gtgggcaggt gctaacatga ctgagacgct gattggaaac aagtgatatc tttctcatag 120
 acctgctgtc aattatgagg aaggtgaaca acaatgcaaa gaccatgatc agctctgtat 180
 ggccgcattt gctagctctg cacaacacat tcaattggca tgtcattaat acc 233

<210> 38279

<211> 454

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F5

<400> 38279

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 agcccactgt ctgttgatcc caacatgctc agcgagggtg gccaccaaca cgccattgcy 120
 tacgtccagg gcgacaagta ctatggtgca aaggccacca ttaatgtgtg ggagcccaag 180
 attcagcagg ctaacgaatt tagcctgtcc cagctctgga tcttgggggg gtcatttggg 240
 gaggatctca acagcataga ggctggctgg caggttagcc ctgacctcta tggagacaac 300
 aacaccaggc tgttcacata ttggactagt gatgcatacc aagccacagg ttgctacaac 360
 atgttgtgtc ctggtttcat tcagataaac agcgagggtg ccatgggggc tagtatcttc 420
 cccatctcga actacgaggg ctccaatat gata 454

<210> 38280

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F6

<400> 38280

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 cggcgctgc accgggaccc gcaaggatga ggtggtgacc cgcgagtaca ccatcaacct 120
 ccacaagcgc ctgcacggat gcaccttcaa gaagaaggca ccgaatgcca tcaaggagat 180
 caggaagttc gtccagaaga ccatgggtac caccgatgtc cggatcgatg tgaagctcaa 240
 caagcacgtc tggagcagcg gtatccggag tgtgccgagg cgagtccgtg tcaggattgc 300

ccgcaagagg aacgacgagg aagacgccaa ggatgggcag tactctctgg tcacagtcgc 360
 tgagatccct ccggaggggtc tcaaaagttt gggaactaat gttgttgaag atgaggatta 420
 agtcgaaggg ttcaatcatc taccacttaa atgcattcc 459

<210> 38281
 <211> 306
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-024-Q1-K1-F7
 <400> 38281

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 tgcaactctg gaactcaaac gttctactcg aggattgatg gttcacataa atgtgggaac 120
 acgtaggaaa aactatgcat cttcgattta ggttgcaaaa gagggagctt gaactcatta 180
 cctgagccat cacaactttc ttctctgcaa cttggttaca gggtatgccc ttgctaaagg 240
 gataatgcaa agatccctac aacaccaatt agaattgggg aagacgaacc tncnctcag 300
 tctcct 306

<210> 38282
 <211> 453
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-024-Q1-K1-F8
 <400> 38282

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 ggtcatgggtg gacatctgct ccacaactgc tcgcctggga tccaagatgt gggcgctctg 120
 cttcgactac atcctgacgc atcaggccta tgtggcgggtg gacaaggact ccactatcaa 180
 ccaggacctt atcagcaact tcttgctgga ccctgtccat ggtgccattg atgtctgcgc 240
 caagctgagg ccacccgtcg acatctctgt gcttgccaac gccaaactctg tgcgcctgga 300
 gtcctacag tcttctctaga tcgaagcagt gagctgagag tgagatggag agagaaagag 360
 aggatgtcgt gtcccagtt acaacacatt gctgaatggg ttgtgcaact ggaatgtaagt 420
 caagtctgaa ctgtgaacct atgatcgctt cta 453

<210> 38283
 <211> 289
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F9

<400> 38283

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 cttttaaaact tccctcttttc ttggaaccgg gttaacagtt tgtcgtgtcg atagctgtga 120
 ttctggctgg ggaagaagtc ctgtctttgc gttgtatact gggagaggag tcttttgtct 180
 tagttctgat agatgtcctt ccgttgctgg ttctcatggc aggtgggtcat cgtgctcgtg 240
 acgagtcgtc atgctcgtct tgagctggta gtgtaggatg aggagttta 289

<210> 38284
 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G1

<400> 38284

cccacgcgta cgggcgcaccg cttaccaggt tgccctagct ccacccacct tccgctgcct 60
 tggggaaact aacccccgcc cccgtcacgg atcggcacgg ccgacggact cgccttcccc 120
 gtcgcctcct ttgcaactgc ctgctctctc tcacctcccc accccgggca ccgcatctgc 180
 tgcgcgatcc cgtcgtcgtc ctgcgcgcag accgtcaaat cctcgcgcgt ccgcacgact 240
 accgtgctct ccagagaacg acggcgcacg ggccgtggcg cgttcgtagt gagcgtgtc 300
 caaggccagg acacgaccat ccaagtccca gatgtgacaa agtcgacatg gcaatcactc 360
 gtgatcgag 369

<210> 38285
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G11

<400> 38285

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 aggattgata attgtccgtg acgtacgacg gggatggcta cagggtagtt agaggctgct 120
 atttagtcgc cgctcgtggaa gtcgatggtc gagtcgtagt cgtttagcgtc tgtgtcggcg 180
 gacctcgcgc tacattgctc taagactccg ttggcgcata cgcgcggcct taataatacg 240
 acgcacgata gcgttgactc gatgatgttg tatactaacc ggactggcgc ttgcatgagt 300
 gattcgcata agcagtagac gttcgcagtag tgttgctcct ttacgattga ctatgacact 360
 aacgcgggatt aaagagtcgt cacgatgagg atcctcacga agtagaacg 409

<210> 38286
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G12

<400> 38286

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 gccttcgtgg aggtctaagg ccgagtcgaa gtcgtttagcg tctgtgtcgg cgacctcga 180
 cttacatggg tctaagactc cgctggcgca tacgcgcggc cttagaata cgctgcacga 240
 tagcgttaac tcgatgatgt tggatactaa gcggtctggc gcttggttga gtgattcgga 300
 taagcataga gcgttgaggt agcgttgctc ctttacgatt gactatgaca ctaaggcggg 360
 gaaagagtcg tctgaggagg atcctgcgaa gtagaacgag ggtcgggcg 409

<210> 38287
 <211> 318
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-G3

<400> 38287

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 ggaggggggt tcttgagagg gagatccacc atttcgcttc ggcttgagca gccggggagc 180

tgagcagcgc ggcgcccatg tcggactccg agctgtccca gggcacgcta gtgttcggcc 240
 tccacctctg ggagctcgtc tgcataccgtg tcagcgcgcg attcgtgctg ctctcgcacc 300
 tcctgtacct gctctgcc 318

<210> 38288
 <211> 431
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-024-Q1-K1-G4
 <400> 38288

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 gcgcgctcat actcgcgtcc gtggaaggct gactcgacat ggcctccgag acggagacgt 120
 tcgccttcca ggcggagatc aaccagctgc tatecgtcat catcaacacc ttctactcca 180
 acaaggagat cttocttagg gagctcattt caaactcctc cgatgccttg gataagatca 240
 ggttcgagag tttgacggac aagagcaagc tggatgccc gccggagctg ttcattccaca 300
 tcgtccctga caaggccaac aatactctga caatcattga cagtggcatt ggtatgacca 360
 agtcagacct tgtgaacaac cttggtacca ttgcacgac tggcacaaaa gagttcatgg 420
 aggcactggc t 431

<210> 38289
 <211> 347
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-024-Q1-K1-E9
 <400> 38289

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 tgcccacgac tcgttgaacg atacttcagg cagtacatca ctattggcga taccataga 120
 acttcgttag acagattcag aactctacat tcggtaaggg ccgacgaaaa atcgacgttg 180
 gaaatcggac tctattagtg gatattccga ctaatttoga aacatgagta cctcatgcat 240
 aaggatctaa cccgttacga tagctaatag tctcccgctg tactcatata tctaattcaa 300
 ctccaacatg cgcgacacca tgcgtgggtc gtctaggaag gataact 347

<210> 38290
 <211> 196
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-024-Q1-K1-D3

 <400> 38290

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 ggaaccggac gaccgcagtc actgtcccaa ccgcattcaa acttgcaaca ggtatgccaa 120
 tctacagggtt ccatgcttcc gaccccgatc atggaagaga ctgcctactt tttattgata 180
 cctaaaatga actcac 196

<210> 38291
 <211> 422
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-024-Q1-K1-D4

 <400> 38291

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 cgttcctgat cagatccgtc taccaggcct tccagggtgt cggcatcttc cccgagaaca 180
 actccttcca cgtggtggac cacaacctnc cgctcgccac cggctgcca gcgccaacgy 240
 tgaacctctc gctcttattt cccgggaaca ttcgtattaa gcagagccaa caaagagctg 300
 ctctttcttg ggaagtgcac ngggtttccc gtcggcggag tctggcgggt ttcgcagcct 360
 gccttgcgac aacagctnct ttgtccggt cggcgacggc cggaatttct ccagccaaag 420
 ca 422

<210> 38292
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-024-Q1-K1-D5

<400> 38292

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tgtccccacc ggcgacggga tcccgaccgg agccctaatt ccaaggggta aacgatgagg 120

ccgtacgcgg tggggacggg ctgcatgtgc gtgtggaggc tgaaagcggg ggccgtcgct 180

ggtgccgcaa gcccgagatt gatggtggtg ccggcgctctg gtccagctcg ggtggacgaa 240

gccgggaagc acgcagtgat ggcggtaca aggctttccg ggcgc 285

<210> 38293

<211> 480

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D6

<400> 38293

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aggttttcac tgcattgaac aatgcaaaga aatctgctag gtcgaatggc actggatttg 120

ctgggcgtaa gagtgttcga tcttcccagc attttgggta tagtaaggac aacttcaatt 180

gggtggatga tatggacatt tcagacagtg agcactcgga tgagttagag aatatgagtg 240

atggatccga ttcagactgg gtacagtcga cgaggaaagc caaaaaacac cagagaagag 300

tgtctagcca ttcaaactct aacctggatt gtcaaaatac acaaggcagt gcagaaccag 360

agaagccctc agatgaaaag tgcattttgc ccaaatacat ttcacagac ggctgttcat 420

gctcaaaatc ctctcatgc aagaccaaca aatgcgagtg cagaggggtca agtgcacaat 480

<210> 38294

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D7

<400> 38294

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tggattatct agaggagta aatgtatagg ttaatggtag ctactacttt gacttatcaa 120

tcgtcccgca catgggtccg acttaagaac accttgcttc aggcgctcaa gatgctgacg 180

cacggccggg acgattgata agtcaaatta gttgattcac ctggatctca gcctcagata 240
 ttttagaggga gtaaatacat aggtcaatgg tagctactag ttttttcggc ttatatgtta 300
 gtgtctagtg cctctattcg taagcacgag tgagaggatg caccagcgta tctgagaatg 360
 gcttcacagt tctaagagac gaactagtag cgataactgt tgatatttac atgaagaaca 420
 tgctcaaaa 429

<210> 38295
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D8

<400> 38295

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 tgtcttgcta gacacgaatg gtgagcccag ggttggtgat tatggtcttg tgaacctgct 120
 gccgatgctg gatcgctatg tgctcagcag taagatccag agcgtgctgg gatacatggc 180
 acctgagttc acttgcacaa cggtaagggt cacggagaag tgcgacatat acagcttcgg 240
 agtgctagtc cttgagattt tgtcaagcag aaggcccgta gaatatctgg aagatagtgt 300
 ggttgtgctt tctgatcttg tcagtgatgc actcgatgat gacaggctgg aggactgcat 360
 ggatccacgg ctatcaggtg agttctcgat ggtggaagcc aactgatca tcaagctggg 420
 cctggtctgt gca 433

<210> 38296
 <211> 308
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D9

<400> 38296

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 agggctacgt cgcgggagat accgtcggcg ctaggcctaa ggccgccaag gcgctcggcg 120
 cgctgtcgtc cgtatctcct aaggagaaga aggagaagtt aaggctccag actatccctg 180
 gcagctaaga acggcgcaaa tcgtttaagg tcacaccgct aaagccaaag cctcgtcagt 240

aatagagtcg ccaaactcga gtcgcattcc cccgcccaata ccgccgtagc accatagagc 300
ctcgccct 308

<210> 38297
<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-024-Q1-K1-E1

<400> 38297

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cggcagcgtg tctgctgttc ttgtgtacgc tgcacagcac aaccagatgg gaggctgac 120
gacgaggagg gcgatgggta ctcccatgcc aatgatgtaa atgtaaagcg tcttccagcc 180
cagcaggcac tgtgcctttt caggcgacgt gtctggttcg cttgtgtgac agtgtctgtt 240
ctgaacttta ctttagcggt agcctattaa cgatcggaga tcatgtaatg tatggctgtt 300
gtatcatagt attaataggg tgtttagttc gagtaatgag ttagtctatc attgtcttaa 360
aagagacnct gagaaaagaa gacaaagctg caaacagcaa ttattctgtt ggtgcaactt 420
aaaacaaaaa aaaggggggc 440

<210> 38298
<211> 492
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E10

<400> 38298

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ggttattctc ctcccttttg cgtagtctga gtcgacctgg tgggtctcgt ttaataactt 120
atttattcct gcttaacttt gacttaagat tgcggtgcga cttggtagta gtccttgtgt 180
ggttacgggt atgggtgtgg cgggtggcgt ggtgttgat tgggttaagt aggggtgggt 240
tgggtggctat tcgcggaaga aggtatcgtc ttatcctctt tctcgtcctg ctacgggtcc 300
tcctatgggt cctgtgttcc ttcttcgtct tcttcggaag cttgttgttg atatttctta 360
gtattatttg atgtattgct ttggggattg ttctgttgat ctttgtgcgg ttgctgatgt 420

gtgtgttatt tcgctcttga atgtggaggt tgctgacgtg tctcttgctg gagttatggc 480
ggatccgggt ga 492

<210> 38299
<211> 481
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E11

<400> 38299

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tccttcagca cacaaacgag tattatgtgc gcgcggcttc ctccaagccc tgggtggtgg 120
gcatgcagtg gtggctctaa ttttaggtga gtctggtctt ggctatttgc tgacttatgt 180
aattacgctg aggaggaaga ttagggagtt taaggaggag aatgccattt ccggatttat 240
cgcttgcgaa ggagagcccg ctcccggcgc cgtctatact cccgtacttc ctaacgatat 300
tcctacctac gctatcgacc cgctcgggag ggaaatcccg gcctggacta tcggcgggtac 360
gaaggccaag gtcgactgcg tcgagctgct catccacgtc gtcacgtccg tcgtctaaga 420
cgccgtatag tgccgtaagg agtctggcac tattgtgtcg tataccaagt cctgcgtaat 480
c 481

<210> 38300
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E2

<400> 38300

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ggcggggaac aaccagatgg tcaacgccac cctgatgaac atcgacgaca accgcaccaa 120
cgtgcagatg ccgaggatgt acaacaagga cgacaacccc cgcgtgcca tcacgagac 180
cggcaacgac ttctccacgc tgtacgcacc gctcatccgc gacggccgca tggagaagtt 240
ctactgggcg cccaccgct aggaccgcat cggcgtctgc aaggccatat tacgcaccga 300
cggcgtctac gaggaacacg tcgtccagct ggtctacacc tttcctggcc agtccatcga 360

cttcttcggc gcgctgcgtg cccgggtcta cgacgacgaa gtccgacggt gggtgagcga 420

<210> 38301

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E3

<400> 38301

cctaaacctt tagcatgacc taactgtggc attgcttagt atggcaggtt tcagacacag 60

cgtatgggtc aaccaaactc acattggcca aatcagcaag atgtacaaat tgtcttacia 120

ccacaagatg aaacagacta tcagacatgc caatcaggtc agactgcatt gcatcaaaac 180

actattaata ctgatgagct ttcacgcaag gctagtgagg gtgggcatcc agaccatctt 240

aatgtccacg ggaaacaaca gcggagccct gcaagtgcac ctactgaatc aactcatgaa 300

cttactgttg ttgaaacaaa catagctgaa catgtagctt atgatgaaca acagaatacc 360

ttattagaac aggattcacc at 382

<210> 38302

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E4

<400> 38302

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gggaaggatc aaccaaactc acagtgaccg tatcaagaac aagtacaaca acggttacia 120

cgaccacatg ctacagacta tcatccatca caagtaagac agactgcacg gcatcagaac 180

actcttacta ctgatacagc cgtcacccac ggcaaagat ggaggccatc cagaccatct 240

tactgccgag acggatccgc gtctgacccc tacaagtgca cctactgaat caactcatga 300

acttactgca gtggaaacaa acat 324

<210> 38303

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E5

<400> 38303

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ggcttcaggg gctcatgcgg ctggcctggt tttgctctgt gctggacgct tagtaagtct 180
gcaactctac atcatatggt atgtagtgag tgatgttcag ttcattgtct gaattcttaa 240
tgaaatgtga tctgaatgcc tgacaattct agtattcata atttctatga tgctctgaaa 300
tctgaatggt caatgggtgt ctgaaatctg aatcgctcac tctccactgt ccagttctag 360
tattcatatt cgttttgctt ggtaatttgg ttactttgat attgccttct atatgctat 419

<210> 38304

<211> 489

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E6

<400> 38304

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cgcgcgcgct tcgcgggagc gctcctgttt ttcagcatcg gcgccgacag cgctgcggtc 180
gcgttcagga caggggtgcgc catctcacac cgacgtccca ccttactcgg ggcaagaggt 240
ctcagttcca ctagaatgga ctcagcttcg accacagtgc catccattgt cgtgtatgtg 300
acagttccaa ataggggaagc aggggaagaag ctgtcacaga gcatcatcag cgagaagctt 360
gctgcttggt tcaatatagt acctggcatt gaatccgtgt actggtggga gggaaaggta 420
caatctgatg ctgaagaatt actcatcatc aagaccaggg aatcactctt ggatgccttg 480
actggacat 489

<210> 38305

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-E8

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gctacgagga ggaggaggac ctggcctcgg acgcgggggc acgccgtgga cgtgccgctg 120

ccgatgcgtc ggctgctgac taacacgggtg ctgaacgtgt ccgccgacgc ggcgctggcg 180

ttcgtggagc agggcgctcg cggtagcggc ggcggcggaa aggcgtgcgg catcaacggc 240

ttcaagggtg ggctcgggga cggcgacagg ggcagcatcc tgtccatcac ggacgccac 300

taccggcaga tgatcgaggc ggacccgggc aactcgttgc tcct 344

<210> 38306

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D2

<400> 38306

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gggaccagac gacggcagtc actgacccaa ccgcgttcaa ccttggtgcc gctatcctaa 120

gcgacaagtt cctcgtgccg acgccgatga aggaggagac cgcctacgtg gagttcatcc 180

agaagaggaa cgcgcccgct gcagccgagc cagagctgat gctaaacaac cgagtgtaca 240

cctgcaacaa cgtccagtgc ccgcgcagct gactacagct acggattact ggaccgaaat 300

gcccgcaaca gccaccagta cacctgcaag cacaaggatc caaccctca gagg 354

<210> 38307

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C1

<400> 38307

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agggcagcgc tattcatata tagagagggt agctatagct cgcacatata tgtaactaac 120

taactaactg gctcgttagc gtcgatccgt acagcacagc caaagcatct agaatcaatg 180

caaaggagaa ccctgccagt gtgctagtac taccagcgca ttttaccaaa ctgaccttca 240

gaaacctgta catccgccag gccggggccgt gcctcatgga gctaac

286

<210> 38308

<211> 464

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C10

<400> 38308

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cccgtttggc ggccgtcaac gacacgggac gaaatggccg ttggcccggg cgtcaccaag 120

gccgcgcaac tcgacgggta accctagtag ctcaacgttt caacgacgaa cccccgggta 180

cccgtcgcct cgttcaataa aaacaaacgt cgattgactc acaaaggcac aacgtaaaac 240

aaaggggtgg tgactcatag gacttaagtc catgcatgta cgtacgtgat gctacagtct 300

cctcacagcg ctattcaaac ctaacctatc gggtgctgcc ccataatact gagatcggga 360

aaatttcggg gccatttaac ccaactgttc cgtagcatac ttttcccctg ttagtcgggtg 420

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<210> 38309

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C11

<400> 38309

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gttgctctcg ttggagggtg ttattgtgaa taagtctttg ttgcggcttc tttctgctgg 120

tagtgctgct gttctcctta ttggcattgt gggtattagt aagaagtgga agtgggatgg 180

tagtagtggg gatgatgatg attgcgggtg ggctgcggat gggactgagt ctaaccctga 240

tggtgtgttg tcgtttttcg agcggtaatg tcgttctgat actaagctgg ggtagactta 300

tcatcataat atgaggatga agaagtggat gcgtaaggat ttt 343

<210> 38310

<211> 490

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C12

<400> 38310

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 ctatataagc aactagcgcg gaacgcgcgc acgacaccgt aatcggccca atctgcgact 180
 accacgaaaa acgtctttac gtaacgctaa ccacgatcgg gacttggcct cgtctctcgt 240
 agcacagcaa aaacaagcct aagcactccg acccaagaat gccgtgcgga caccacagct 300
 aagtagccgc caggcttacg aaacccttag tcgagctaga aaaggatagc gaacaccgca 360
 tattcgagaa agtcaaacc c ataaagtaac cagagaggtc ccacctaaac gcccggttat 420
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 agttcttcgg 490

<210> 38311
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C3

<400> 38311

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 gggcaccgtg gagtcccagg ctggtggagg ccgtgggtctt cggctgcac cgggtgatca 180
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 tcgtgctgag gaagcaacgg ctcttcgcga acccgtctat gaagcatgcc atgctgttcc 360
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 t 421

<210> 38312
 <211> 423

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C4

<400> 38312

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 gcagccttgc tttcataaaa gtgccagtc ttgaggatga ctttggtcag gaagcagcag 180
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 gtgatgcttc tgggggaaaa tcaaaggac aaggaaccgg aaatgttctc attgttactc 300
 ttgttgatgc ggagacagaa agtagcataa atgctaccat gcttgaggaa ggccttgctc 360
 ggcttgaaag aagcaagaga tgggacacta gggagaggaa gacggctctc cagaacctgg 420
 aac 423

<210> 38313
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C5

<400> 38313

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 gaccagccgc gtggagcgcg agcgcgggtc ctctctcccg tacctgcgct tctaccgccg 180
 acctacgac gagatttctt accgcgccat gatgcgcccg ccgctcggcg gcctgatacc 240
 catcgtcgag aagttcaagc acaagccggt gcagcagacg ctgcgtcggc acgctgggct 300
 ccaccagcat cagcagcacc accattacca acagcagcag aggatctgag tctcgtctct 360
 cggtcggtac tgcattggca cccgagaatt ttctccatat acagcataaa ggcgatgcta 420
 tattatgcta agttaatc 438

<210> 38314
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C6

<400> 38314

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gaccagccgc gtggagcgcg agcgcgggtc ctctctcccg tacctgcgct tctaccgccg 180
accctacgac gagatttctt accgcgccat gatgcgcccc ccgctcggcg gcctgatacc 240
catcgctcag aagttcaagc acaagccggt gcagcagacg ctgcgtcggc acgctgggct 300
ccaccagcat cagcagcacc accattacca acagcagctg aggatctgag tctcgtctct 360
cggtcggtac tgcattggcg cccgagaatt ttctccatat acagcataaa ggcgatgcta 420
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<210> 38315

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C7

<400> 38315

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cttttttttt tttagagataa caaggaggag aggaggagat ggcggtcacg atcacgtggg 120
tgaaggcgag gcagatcttc gacagccgag gcaacccac cgtcgaggtg gacgtggggc 180
ttagcgacgg cagctacgag agggggggcg taccagcgcg cgcattccact ggaatatatg 240
aggccttgga gttgagggat ggaggatctg attatcttgg caagggtgtt cttaaggctg 300
tcagcaatgt aaataacatt attggaccag caattgttgg aaaggacccc actgagcatg 360
gtgagattga caattcatg gtccaacagc ttgatggaaa cctcaatgag tggggc 416

<210> 38316

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-C8

<400> 38316

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 ggtaaccatt ttttgaagag aaacatatct caatccccg ggtttggttg gacagacaat 120
 caagaaaagc acaggaccaa aataaaggaa aagcttgaga aatttaacaa ggagaagttg 180
 ctagatTTTT gtgaaattct ggacgttatt gtaaaagtaa ctactaagaa ggaagaagtt 240
 tctgccaaagc tcttggaatt tttagagtct ccttggtgta ccagggatgt tattctcact 300
 gataaaaaga aggggaagaa acgcggaagg aaatctaaag taagtcgtga ggtaacttct 360
 gaaggtgctt ctgcagagaa gaaaaggaaa agagttcaga aacaagcagc tgaaaattgt 420
 aaagaagaat gatgatgggg atgatgctga tcttgctggt tc 462

<210> 38317
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-024-Q1-K1-C9
 <400> 38317

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 tcctacggct taatagtccg acggaatgct tagagagcgg ggtcggcgta aatagaagtc 120
 cggagtaaac gttacttccg tggccctatc cgtcgcgcgt aaagtcggag tcacggcgaa 180
 gaagaccttc tcccattagt atactgtana ctccgtcggg aataaaatct cggcgtcttt 240
 cgcattcggt cccaacgcga ccaacggagg gctatacgtc ggaaataagt ccgttacgta 300
 ggagcctacg acttcnttaa tcggcggttcn tctgcctaag gaggttacga agacgggagc 360
 cgaagcgcgt tataattcga agagtacaac taagaagaag catggctagg acgtgataaa 420
 cgccggggac 430

<210> 38318
 <211> 384
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-024-Q1-K1-D1
 <400> 38318

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ctatggctca tatacaggcc cagctctaca gcacaatcac atgcattaga tgggtggcaaa 180
gaccatgata ctcattgcaac ctcattatgct gtcacgaaca ctcacagcaa catggatcct 240
gttgtagaga taagtatctc tcagttacat gacatcactg cgctaaaggc caatcaagga 300
tacaggaaaa gacatgtgtc acatgagaaa atttctgatg agacagcaat tgcttgaata 360
accactggaa atattaagaa aaat 384

<210> 38319

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D10

<400> 38319

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agcctcagac tgtgagtggt tgtttccacc ggcggggccc cccctacgc ccccccggcc 120
cctcctcggc gccctatgcc ctctaactcg tcaacgaaac ggaagtattc gatgctagac 180
tacattcggc ggtaatcact taccaaatcg aatcccatcg caatcgtatc gcctaactaa 240
tcgcagtggt caaccagtca gtccgtcatt cgttgggggc acggtaaacg taaaaatcga 300
tacaagctat taggagcaag cgcaatctct gagcttcgtc tccgccatcg cccgggcac 360
gatcgcgcta tcttatcatc acccaagaac tacagtagca agcccatcag cgctctcgtc 420
gct 423

<210> 38320

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D11

<400> 38320

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aactgaagga gtaagaggaa ggcgccctgg tcgagtaaga cgagaagtaa ggagaggaag 120

tagaagaaaa aggaaaagaa acggacgttg acgagaagta agaagaggaa gtagaagaaa 180
aaggcctcgt cgacgagaaa gacgaagacg aaggcgatta gaagacggaa gagaacaagg 240
aggagatctt gaagaacaag aaagtaagga gcgttaggga cagaagttag ggaaacgaca 300
acaaatacga cggactaaaa ctcaggaag ttaaaagccc gtcgaatatt ttaagtttac 360
acggcattga ctgcttctaa tgcgagagga aaacagcgga aaagccggcc gaagcgaccg 420
agaaagagtt aaataggaac cctgc 445

<210> 38321

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-D12

<400> 38321

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gatctgcggg ttggcggtga aggtttcgga tagacggttt gcactccgga tgagagtgtg 120
gtagtcgtta gtcttgaaac tggcggttgg actgtttacc tctcagagtt gcggagttgt 180
gttggtgcga cgagaagaac agccggggtc gagaacgaga tgacagttga gccgacgaag 240
actcgtattc tgaagtctaa gtcttccgtg cttgtactag tcctttcgtt tccggcgccg 300
tatcaggtcg ggaaaccccg actgcgagac ccccccaact tctacttttg atcgtcgtcg 360
cgttccttct ccgtttttcc gacgccgcaa attaaatcaa cgcgtgtcgg cgcccgccgg 420
cctgacgtaa ccccgccccg agcgatacgt cag 453

<210> 38322

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-024-Q1-K1-B9

<400> 38322

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ttgcttatgt gcttggttat gtggttgggt ctccacttac gggtcgaata gatatcatca 120
tctgaccgta actaaccatt gaaaaaacga atccgaggag aaaacgccgt cgaatccgta 180

taaaaagaaa cggatagacg ggtcaacccc gaagaggccc gatattctacc taaaaattaa 240
tgagtagatc gcttaagaaa cgtcaaattc agttactaag cataataagg tggcgtaaga 300
ggaagatgaa tcgttattcg agaaatccgt gacagtaaac gcaggctggg aagacgtaaa 360
aaagtaccgg gaagagtacg cgcttaaccc gacgctacta aatacagcct agatttcagg 420
aattacgtct gatatggcgg caccncagct ctcatcaac 459

<210> 38323
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A4

<400> 38323
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aagaccggcg gtgtcgacag cctgccgccg gggcctccgg gttggccggg ggtggggaac 120
ctgttccagg tgatcctgca gcgacggccc ttcattgtacg tgggtgcgcga cctccgggag 180
aagtacgggc ccatcttcac catgcggatg gggcagcgca cctcatcgt ggtcacctcg 240
gcggagctca tccacgaggc gctgggtgaag cagggcccca tgttcgcgag ccggtccgag 300
gacagcccca cccgccttct ttcagcgtcg gcaagtg 337

<210> 38324
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A5

<400> 38324
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acggcagtcg gcagcagcca gcgtcgagcg caatgccctc ttgtctgctg cctcctacct 120
ccccgcccag tctcactcac acgtcccccac ttccgagtct cgctcgcagc ctgtttctct 180
ggggtcggat cggagggggg tgaggagatg gagccagatt cggcgacgac gaggctcgca 240
ttgctggcgc tgctttctct ggcgggcgccc gcccgcggcg cctcggcggc tccggtggag 300
gatggcctgc tcagcaatgg tgactgtgag acggcaccag gcggcggttt cgtaagatct 360

gcgtctgttg ctg

373

<210> 38325

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A6

<400> 38325

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agggcagttt gcagcagcca gggcgagcg cagtgcctc ttgcctgctg cctactacct 120
ccccgcccag tctcactcac acgtccccc ttccgagtct cgctcgagc ctgttctcct 180
ggggtccgat cggagggggg tgacgagatg gagccagatt cggcgactac taggctcgca 240
ttgctggcgc tgcttcttct ggcagggccc gcccgcccg actccgagc tctgctgat 300
gatggcctgc tcagcaatgc tgactctgaa accggaccag cctccagatt cgtaagatct 360
gcgtctgttg ctgaggggtgc atacgatatc cctggttgga caatcaatgg cacagtcgag 420
ctcatttc 428

<210> 38326

<211> 477

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A8

<400> 38326

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cggaggacac ctgccgcac gaaatccgcg ccggtacaa gaacctcgtc aagaagtggc 120
accccgacaa gcacccgcgc tcgtccaggc cggaggccga ggcgcgcttc aaggccatca 180
gcgaggccta cgaggcgctc ctggaccagc aggagaacag gggcgtgttc gagctgtgca 240
acgacggccg ggcgggtgag aggacgcgcg ggccttcgg cggcgccggc ggcggcggtg 300
gcggaggagg aggaggctc ggcgccggcg tcggggcgcg catggagagg acgcgcagcg 360
acgggttctg cagcaggagc gcgcccggca cgcggcgag ggagttcaag aaggtgtaca 420
gctccggcga ccccggcggg cgccgcgcct tcggcgagtt cttcagcttc atcgtgc 477

<210> 38327
 <211> 463
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A9

<400> 38327

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 tcagtgatcg tcgcggcgctc taggagtagc ttctgcgatg tgaagtaggc ctcttcttat 120
 gtggggtttcc tcaagacagt gcgtgttatg gtcgctcgtgc cgcgtgagag gggcgcttag 180
 gctgctacga atttaaataa ggaacacgat acgtctaagc tatagaccgt agacagtaaa 240
 gtaagtcacc gggaatgatg tcttgataat tattatatgt tctaggcccc gtcagcagat 300
 agtactgatg atgaggaata gaagacggta ttgaaaggag ttgcacctgc tctaactcta 360
 tagcctttta ctaagaaaac ttgtaaggac cgtattcatt cgagtatctt agtaacgaag 420
 actttcgaaa ttacgtaaaa cacttacgtt cgtgagaatc ggt 463

<210> 38328
 <211> 102
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B1

<400> 38328

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 ggagtgggca tatacgtata ctgaggggtc atgcctcaaa tt 102

<210> 38329
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B10

<400> 38329

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 tcgcctaggc ctgggcctgc gggcgagagg gaagagatgg tggtgctaga tgtcgagcat 120

tgaggtcctg acggtgggtc tgatcgggtt attgatgatt atccttctaa taatgttccg 180
 agtattcatc gtgaggcttc tgagctgaag actacttcgg actgggagat gtagaggctt 240
 tgtggtcctg gtctgtctat tcctcttatg gaggatgtga cgtgtagtgt tactgagggt 300
 acgaatcgtc aggagtctga tggttgtaat actattgcca atgagggtta gctttgtggg 360
 agttgcggag g 371

<210> 38330
 <211> 443
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-024-Q1-K1-B11

<400> 38330
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 aatatccgac cgacctagca ggcagtcagt cagtcgaact ataacggact tcattaagcc 120
 ttgcttgctt agcagttatg atatgatggc gatgatgatg aatgtgggtg tcttcgcgcg 180
 gaatgataat gaggtgtcga tcgcgggggtt ctgtggcctt acttcgtcgg aggatcatta 240
 ttcgactgag aaggcgggtg atcctgtgtg tgagtgtaca ttggagtgtg cggcgatatgt 300
 gtgtgggggtt cntgataagg gtctcctga gcgtatctat gatgcgatgc tgcgatgcg 360
 tgttgatcct tcgtgtgtgt ttggtgcgtg gatgtttgcg actgcgtgtc ctctgatggc 420
 gacttatgag tgggggcttt tgg 443

<210> 38331
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B12

<400> 38331
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 gcatctctgg gttgtattgg gaagactact gttgagcata ctcgggccgg tggccttggg 120
 acggatgcta ggagtaaagt taggatgtcg catggattcg ccgacgattt tagtaagtcc 180

ttgaagcggg atcctaattgg tcatagtatt ggttaagtct tgggtgatga tagtgaagct 240
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 acgcgtgatc gtcattgagtt gaatggggag ttgactttga gtaataagtg gtatgggggtt 360
 gtgaagactc ccagttatatt cgatgctaag gtcgatgaat tacggcctgg gaccgagtaa 420
 gagcatatatt 430

<210> 38332
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B2

<400> 38332

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 tgggtggctga tgaaatcctc ttctcgtcta gatctgagcc tccgcctgtc ttccggatca 120
 gatgcttggc ccgatcgaac aacggtgagt cttgctctgg tatttgattg ttctaaacgc 180
 atggttttgt ttttgtgatg atgtgcaggc tccgatctgt ttcgtttgat tgatgagttg 240
 acgcattcggc tcgaaacgag gctgcatggc ttttgtgcct ggaggtttct gattagcgtg 300
 ttttaaggaaa ctgggtgccca caatttggtg ctagaagtgc tcgatccgtc gaattgatat 360
 ctgccgagct ggcacgttcc gggggatctg gatcttagcg gactggacat 410

<210> 38333
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B3

<400> 38333

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 agttagcttt cgtggagatt tcgtcccggg gcatcaataa aatggtggca tgcgtggtgg 120
 gatgctatcc ttgatcttat tttattgtat tttatattta gcttgatca gttgggggtc 180
 tgaacattgc tagtgtcatg tgattgggaa ggctaagtgt atgccttcga tgcagagttt 240
 tc 242

<210> 38334
 <211> 333
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-024-Q1-K1-B4

 <400> 38334

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 agagccacgc cggtcggcac accgtcgctt gctttgacta gcctcgccgc cgcagcgaca 120
 gccatggcca ccgctgcccgc ctccctccac ctccctgggc cgacgcctcc taaatcctct 180
 acccccttct cccaccgcct ccctgtccct tgccacctcc gcccgcaacg ccggcgcttg 240
 gccgactcgt cctccgacct cacctgcttc cccgaaccga ctaccgtccc gaacggcgctc 300
 tacgtgccgt gggcgggcgc cttctccgtg gcc 333

<210> 38335
 <211> 454
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-024-Q1-K1-B5

 <400> 38335

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 gcaggattac cattttctta agcctaacat ggcagaagat gcagctgaga accttttggt 120
 ttcaaagaca actactgcaa aggtgtggtt aattggggat ggtctagatg cttctgagca 180
 gtttaaggca cagaaaggga cccagtttat cccatattca cagtttccac caagaatggc 240
 acgcaaggac acctgcacct actcgacaac tcctgcaatg gttgtacctt aaacactaca 300
 gaatgtgcac tctgtgaga attggctgcc aaggaggggc atgagtgcac ggcgcatctg 360
 tggaatgggt catgcattgg aaggatggaa cgagcatgag tgtggggaca tcgtgctaga 420
 catggagaaa atgtggtctg gtgctcttct gcat 454

<210> 38336
 <211> 470
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B6

<400> 38336

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gggataccca acagttctgg cttctcgcat cacatattat atcccataat cccatgagtt 120
cgcattcaca tctgcggcag tgtgatgaat aaaatgatcc atgttaaadc tcttggacct 180
aatacggcta tagcaataat cctgtgtcaa cttagctcga gctgttctac gagtgttgag 240
acgcttatac tctgtgtact agttatcgaa ttcctgtata gcagcttgta tgacactaca 300
taatgtgcta taatagtcac actagctgcc aaagaaggta atgagtgcac ggcgcattgc 360
tggaatgggt catgcattgc agggatggaa cgagcatgaa tgtggtgaca tcgtgctaga 420
catggagaaa atgtggtctg gagctcttct gcatggtttc cgccctgtgg 470

<210> 38337

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-024-Q1-K1-B7

<400> 38337

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cgctgctgct gctggcgggc ggggcccggga cggcgctcggc ggccgtgagc tgcggcgagg 180
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aggccacctg caactgcctc aagagcatga cgggcccggc cggcggcggc gtcagcatgg 360
ccaacgccgn caacatcccc ggcaagtgcg gcgtctccgt cggcggtgcc atcagcccca 420
ccggcgactg caccaagatc aactg 445

<210> 38338

<211> 492

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-B8

<400> 38338

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tggtttgat aagagaggca accatccatg ttttgatcca agaaaggatc tagtgcttcc 120
ggcatggaag gaacctaacc caggggccat atgggttaaaa ctgtgggcaa ggccaaggaa 180
caaccgtaca acactttttt atttcaacgg taatctaggt tcagcatacg aaggaggccg 240
tccagaagac acgtatagca tggggattcg gcaaaagcta gcagctgaat ttggttccac 300
accaaacaag caggaagcc ttggacggca gcatgcggcc gatgtgacag ttacctattt 360
acgaactgag aaatattatg aagaactagc aagctctgtt ttttgtggtg tcctgccaag 420
ggatggctgg agtggccgta tggaagatag catgcttcaa ggatgcattc ctggaataat 480
tcatgatgga at 492

<210> 38339

<211> 440

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-024-Q1-K1-A3

<400> 38339

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gagcccgaca gatcttgaat tgccattcc ggccaccgat cgaccttcac gccagtctcg 120
gtctcttcgc aaggcgctgc gcgcggttgt ttgagaggag aggaggaaga tgagggagt 180
catctccgtc cacatcgggc aggccggcat ccaagtcggc aacgcgtgct gggaacttta 240
ctgcctcgag caccgcatcc agcctgatgg ccaagtgcct ggagataaga ccgcgggaca 300
tcacgatgat gccttcagca ccttcttcag ccagactggt gctgggaagc acgttccccg 360
tgcaatcttc gttgatctag aaccactgt gatcgatgag gtgcgcactg gcacgtaccg 420
ncagcttttt caccctgagc 440

<210> 38340

<211> 297

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-G2

<400> 38340

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cccatccacg acgcggactt cgggtggggg cggcccgtgt tcatggggcc cgggggcatc 120
gcctacaaag ggctcgcgtt cgtgctcccc aacgccaaacc gcgacggcag cctgtccgtg 180
gccatctcgc tgcaggcgga gcacatggag aagttccgga agctcatcta cgacttctga 240
tctccaactc ctncaccaca gtcacagta ccagtacgcg caacacaaag aagcaag 297

<210> 38341
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-G4

<400> 38341

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ggtggacccc ttggtcttgg aaaagcaatc ctaaattggtg agccctctgg attttgtgct 180
gcagcttatg gagatgctga ccgcaacatg attcttggta aaagattctt tgtgacaccg 240
tcggactctg ttgccattat cgcagccaat gctgttcaat caattcctta ctttgccttct 300
ggcctgaagg gagttgccag gagcatgcca acatctgctg cccttgatgt tgttgcaaag 360
aatttgaacc ttaagttctt tgagggtgcct actggatg 398

<210> 38342
<211> 307
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-G7

<400> 38342

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agaaacacac ccacactgtc accagaggac agacagcggg cggcgtagcg agtcgcgatc 120
acgagcacgg acgagcggtc acgcgaaaca tcacagtcaa aagagaaacc cagccaacag 180

actggaggcg cccatgcgcg ccttcattac aaacacagaa aagaccgacc ccacgccaga 240
 tcagagagtc cggcgcgcgc gcgctcgcgt cgctcagacc ccagagagag accagagcag 300
 agcgcgcg 307

<210> 38343
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-023-Q1-K1-G8
 <400> 38343

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 gcaagcctcc tgtttttgac gagaaatatc aaactagctt ggatgacgtg gatgctgctt 120
 ttggagattc agaagaccgg catgtgaaag aggaaactga agatcagcca acctcaatga 180
 atgcattcga actgatttca ctaaaccagg cactgaatct ggagaatttg tttgaagcaa 240
 aggaggagta taaaagagag acaagattca cctcacagtg cccccgaaa gagataatca 300
 caaagatcga agaagctgca aagccgcttg gctttgatgt tcaaaagaaa aaatacaaga 360
 tgcggatgga gaacccgaaa gcaggtagaa agggcaatct gaat 404

<210> 38344
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-023-Q1-K1-G9
 <400> 38344

aacaaacagc aacaagaaca tactggtttt acaccacaga agggccccag cttcccggga 60
 tcaccagctg gccgggcaac aacttcaacc cgccgggcaa cacaacaagc ggcagccaaa 120
 actaaaggag tggctggtat gggatcttaa cacatggagc cgcccaccgg atgtatattt 180
 taaccaaaca agcaaaactg ttccagcgat tgacagttga tgaaggatcat tggttgtatt 240
 gtatgctaaa ctgctgcagc aatagaacac actgattgcg tggaagttac tcttccatgt 300
 gcctcgagtg caaagcagag acaaaaaaac tgtacgtgtt gtagacttgt agctggtgct 360
 tgaatcagtt ttgtaccac atcgaaaaca attcctgttg gttacacccc gaaaa 415

<210> 38345
 <211> 252
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-H1

<400> 38345

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 tggctctgcc gcgccagggc cgctgccgct gccccctcc tcctgctgct gctcgtcgcc 120
 gccgcagcgc agctcgtgtc ctccgtgtcg ccggcagaca gcgacattcg tcacaagtc 180
 tgccgcacga ccattaccc gcccgcttgc gagcagagcc tggcctcgta caggagctcg 240
 tcttccacgc gg 252

<210> 38346
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-H11

<400> 38346

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 agggtaatac ttgtcaagtg gcaatggcgg accaagggtca ccaaccact gttcttcata 120
 agctcgggtg ccagctacag ctgcgctcga tcatttatga acgtgttctg gcacgtaaca 180
 tattgccatc tggcttatct tatgaaagga gatgtgtcac aaggaactac aagaccgaga 240
 gcctttgggg cccttcaatg tgagctagcg gtggcatgaa tgtaccagcg atgcagaccc 300
 cggtttgagc taatgctcct gc 322

<210> 38347
 <211> 429
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-023-Q1-K1-H2

<400> 38347

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tagtggttaag catgtgatcg aggagtaccg aaagcaggca aacacaattg cctgggtggaa 120
agcctgtttac tttaatggat caagatatatt tggagatgat tttcttccca gttgtgaatg 180
aggcatgcag gggttatggat gaaaatgttg taattcgagc ttccgatctt gatattgctt 240
ctgttcttgg aatgggcttt cccaaataca ggggtgggtct tgtcttctgg gctgacactg 300
ttggagcgcc ttacatacat tcgaagctaa gcaagtgggc cgaaatgtat ggtcccttct 360
tcaaacccttc atcgtatttg gaacaacgag ctaaaagtgg tgtaccattg agcgcaccan 420
gaacatcac 429

<210> 38348
<211> 224
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-023-Q1-K1-H3
<400> 38348

aacacaaaact tgtatttgaa gaacttaaaa gagaacattg gtgatgagaa attgcgtgga 60
ctctttgctg agtatggcaa tattacttcc tgcaagggtta tgcgggattc ggatgggtgc 120
agcagagggt ctggatttgt tgctttcaaa tctgctgaag atgctaaccg agctcttacg 180
gagatgaatg gcaaaatggt tggaagcaag cccctttatg tagc 224

<210> 38349
<211> 219
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-023-Q1-K1-H4
<400> 38349

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caagttgggt tgggtgggtgc ctctctgtgt tccatctgta tctcatgagc acaaacgaga 120
caacatatga gaatttcagg tatcgctatg atcagcgaga caaccatac aacaagggag 180
tcatggaaaa catcaaagag atcttcttta caacgatcc 219

<210> 38350

<211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-023-Q1-K1-H6

 <400> 38350

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 tccctcaacc ccatcacctc gctctactac gtcgcgcctt gctgcctcgc cttcctcgtc 120
 gtgccctggg tcttcgtcga gctgcccagg ctgcgcgcgcg tcggcatctt ccagccggac 180
 ctcttcgtct tcggcaccaa ctccctctgc gccttcgcgc tcaacctcgc cgtctttctg 240
 ctcgtcggca agacgtcggc tctcaccatg aacgtcgcgc gcgtcgt 287

<210> 38351
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-023-Q1-K1-H7

 <400> 38351

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 gtggcgggccc gtccagacgc cctccttgcc gttgagagct gaaatcgttg ttggttacct 120
 agccagtggg agatcttctt cgtactatac tcctgcttga gtttcttctg ccacttcttt 180
 tgcattctga gctagctagc tggctgctcg atttggtcgt cagttccgag atgggaaaac 240
 gaaaacatct cttctcgtca ctaatcgcta gatccattca cagtgatagt tactgatgta 300
 agcctactaa ttagtttaat ggcagatcaa ccttggttag cctaattagt tacttggtac 360
 tactgttctt t 371

<210> 38352
 <211> 427
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-023-Q1-K1-H9

 <400> 38352

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tgcctttgta cagagaagcg gtgatgagtt ctcacagaag gtgacgcaaa gtgtactgct 120
 gtcttatgag atgctgactt agacgaacat tgtggagtcg aatgagtctg caatcgggtga 180
 gctgcaattc acaaccaatt atctcatgcc atcattcttt tgctttcccc tgtatatttt 240
 ttcaaccggt gtcactcgta tagtggtggt gggtctcttt agacaaactc gggacgggtg 300
 cttatcctaa aaattcgatt gtactgcgtg gcatgaaatg atcgattcga agaataatttt 360
 gaacatgctg ccacctaata aaaaaatttc atgtttaact tcataaggaa taacttgtgc 420
 ttattct 427

<210> 38353
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A1

<400> 38353

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 gctccaacaa ggcaacacat tccatcgga ccaaccagc gcggcgccac cggcgacccg 180
 tgcccacttt ctaggagagc gatagccacg gagctgacct ctgcgcaact gagcacgtac 240
 tactgcacct gcacgtcaa ggccatctac gtgctcattg cgcggaagg tctacgacgt 300

<210> 38354
 <211> 139
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A10

<400> 38354

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 gatgtgcggg tcgtagaagc tgccccgaga gaggaccaag tagttctacc taggagcggg 120
 ccgattattc agttcacia 139

<210> 38355
 <211> 438
 <212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-024-Q1-K1-A11

<400> 38355

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tacatctaca gacctacana ggagaaaata gatacccccac aagacggagt aggcgcctaa 120

gagttcatcg tggctaaagg ggaggttcat atatttgatg cccaacctta cgacaataaa 180

ccacgggaga gtaaggtcta tagagaaagt ggagctcgcg gccgagaaga cggaagaacc 240

gggacctaaa ttaaatacacg cgatatagga acgtttctact acaacgcagtg tctaccgcga 300

ccgcgcacta caggtttgggt atgcgcccga cgagtcgcg attctgtaga ataaagcgta 360

ttcactcctg ccgaatctga cgtcggaagt tcatcgtagc aatcgtcctg atatagaagt 420

agactgggtcg tcggacat 438

<210> 38356

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A12

<400> 38356

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tcggagatgt agtggagttt ctgttcccct gactcggctt cgtcttcgtc gtttggcagt 120

ttgttgaggg agatgtcgtc gattcgatga atcgagttaa tggatgagaa ggaggggtat 180

attatgtagg agattggagg agagtgtgtg tgtggactta ttctgcacat atctcttctc 240

ctctcttgc gcttccggtc tagaccagc cgtcgtgttg tcctccagga ccgaccgtcg 300

tcctatthag cgactgtgct gctactcctg tgcccgtcca actgttcggc cgtcgtactg 360

gcccccccc ccggcgccgcg cggccggggg cgtgggtata aggcccttct tcgcccagtt 420

cggaccggcg caggaccctg acgcgactga cgttggttga aaataaaa 468

<210> 38357

<211> 363*

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-A2

<400> 38357

aacacatgct cctgcgcgtt ctactcacac acttagcgcc tacaccgctc accatgcgat 60
cgagtctgac agcaccggca agtgccaatg actctacagc tgatcatgca gtagctaata 120
catctgactg ggcaataactg tgcataaccga ccaaccagc aggatgaaaa ccatgaccc 180
tgctgcttct accaccaagg gaagggcacg cagcttacag gcgggcaact acggccgtac 240
tagcgactgt aacagctgaa agcgatgtac cagttgatgc tgctcactgt gtacgatgta 300
actcagcggc cgccggctct acagactgct ctcacgacta ctaccgaatg accaccacga 360
gag 363

<210> 38358

<211> 280

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-G12

<400> 38358

gcgtcccagt cctcggacgt ctacagtttc ggcgtcttcg tgctggagct cctcacgggg 60
aagtcgcccc tccagataac cggcggcggt ggcggcgacg tgggccacct ggtgagatgg 120
gtgcagtcgg ttgtgcggga ggagtggacc gccgaggtgt tcgacggcga gcttctgcgg 180
taccccaaca tcgaggagga gatggttagag atgctgcaga tcgccatggc gtgcgtgtcc 240
aggacccccg agcggcgtcc caagatggcg gacgtggtga 280

<210> 38359

<211> 306

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-023-Q1-K1-D9

<400> 38359

aaatttcctt tgctcccca aanctaccgg taatgggaat tcattttgat ctttaaactt 60
tgtaaccatc ttttacttga gcttcattta atcaatttga tgcactgctc attaaattaa 120

ttggaacata actttctgtc actagatctg gttgagcagc tttagaactc taacatatct 180
 aaaagcataa gaagttaatg tattttataa tcaaaatgac tcattcttgac aaaattgaat 240
 tacttctgga ttatgggtca ccttatgata tttggagctg ctgattccaa tattattttc 300
 aatctt 306

<210> 38360
 <211> 308
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-023-Q1-K1-E1
 <400> 38360

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 tactactgtt gcagctaacg ggagatccat atttgcatgc ttgcttgata aagtgaacca 120
 atacttaact gaagggcttg accgtgctag agagagtnta aatgaggccg cagctttgcg 180
 ggatagatat gtcacgga caagtgttag taggagagtgc gcagctgctg ctgcttctgc 240
 acaagaagtg gcagcttcag ctggtgagag cagctntaga tcctttatga ttgctgtgca 300
 gcgttgta 308

<210> 38361
 <211> 293
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-023-Q1-K1-E10
 <400> 38361

ccaccaanc gccatggccg ccgccgccc cgacgcagac gcctactata tcccgtgggt 60
 ggagaagtac cgcgcgccc gcgtcgctga cgtcgctgga aactccgatg ccgtcgccc 120
 cctggaggtc attgcccgcg acggcaacat gcccaacctc atcctcttca ggctccggg 180
 gactgggaag acgacgagca tcctggcgct ggcgcatgag ctctcgggc ccagctatcg 240
 tgatgccgtg ctggagctca atgcctcaca tgacaggggt ttggatgttg tgc 293

<210> 38362

<211> 462
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-023-Q1-K1-E4
 <400> 38362

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 ggctccttgta aggtttttctt tttgcttgct tgcacatggg attcctacat ccatgaatcg 120
 tgatatccgt cgtctaacct agtacgcaat tctagctagt aaccagcagg atcaaatata 180
 cttcctttttt cttcataaaa aaaaatatat agattcccat tacaagtgt agctagtgcg 240
 catgcactaa ctggtataga atagatagat acaatattat tctcgttggg gggcggagat 300
 gaaatatact atcgatcacg ttgtatttga gaacgtagag aatatgttag tacacaacga 360
 ctatatatag ctaggcagca tgcaggtggc cacgtactca ttatcaatca cgttggatta 420
 tgtctttgtc attatatata actctataaa aacctaatat ga 462

<210> 38363
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-023-Q1-K1-E5
 <400> 38363

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 tgaggttata gaccacatta aggcttctct gtaggctgcc tgcccaggca caggctcctg 120
 tccccacatt gctacgcttg cggctcgtga ttccaccgcc ctgtttgagt gaccatactg 180
 ggacgtgcca ctcgggccga gagacttgct cgggtgcaagc atccagagct ccaacaatga 240
 catnagagac tgcaacaaca cactacctac tataatctca aagtttaagc gccacggcct 300
 caatgtaga cgatgatgca tccctctcat gtggccacac cattgggtatg tctcgttgca 360
 ct 362

<210> 38364
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-E6

<400> 38364

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aagttggtga ggtcattgct ataactgtgg aagaagaggg tgacattgag aagtttaagg 120
attataagcc gtcattctca gctgaacctg tagctcctgc tgaatcaaag gctcaaccag 180
aaccttcaca accaaagggtg gaggaaaaaa agcttaccca ggctcctgag gttaaggccc 240
caaagattga agaagcttct caatctggag atcgcatatt tgccagccct cttgcccgtg 300
aactggctga agataacaat gtcccactat caagtgtgaa aggtactggg cctgatgggc 360
gtattttgaa ggcagacatt gaagattact ttggccaagg tgggc 405

<210> 38365

<211> 484

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-E7

<400> 38365

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agaagacaaa aagtttcttt gctaattgag cagaaacatt caatgctgca tttatgtata 120
tatcatcatt gacgttagca taaaatgag cattgaatgc taacgtcaat gatgatatat 180
acataaatgt cgatactttg agtgcaatgc tcgaaactca ctgggacagg cctcgtgtct 240
atatagggtg catgaaatcg ggcgaggttt tctctgactt aaccacaag tggtagaat 300
cagactgggtg gaaatttggt gatgggaaat cgtactttcg acacacttct ggtgaaatgt 360
ttgtcatatc cagggccata gctcagttca tttctataaa caagtccgct ctccggacat 420
atgcccata tgatgttagt gttggatcgt ggatgattgg ccctgccgtg aatcatgtaa 480
atga 484

<210> 38366

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-E9

<400> 38366

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cacgccgcgcg cgctgcccacat gggcgccccg cgcggacgcg accgcggcct tcgcgccttc 120
cccttttctc tcatcatgtg ctgccaccgg tgcacaaaca aggctgcagc tctgcggcag 180
gagccagagg cgcggcggcg tggcgcgggg aggtggcggc ggcgggtggg gcaaggggga 240
gagtggcaag aacggcgcgcg cggcggttctt tgatgaagac ggggtggtgg acgacatgga 300
cgggtacctc aactacctgt cctcgcagta cgactctgtc tgggacacca agcctgcctg 360
gtgtcagcct tggacaatat tgcttacggg aact 394

<210> 38367

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-023-Q1-K1-F1

<400> 38367

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acaaatatgc ttcttctgta gtcgtaattt tacagtttagc tacaataatc taataacata 120
gcaattccag aatttgagcc gaagtgtggt ttgaagcctg tacttatcat tattttccat 180
atatacacia ctaatacaga atatgacacc acanaaagta ttcttcaaga gaactaaata 240
gatatttgca ctaacacttg ctcttgtctc atcctaaatt tgacattatc tgaaggttat 300
aaaatagtga gctacaactg atacaacca ctgcaaccga agaagaaatt cagaattcct 360
agccacaaaa ctacgaagac aaaaatgtcg 390

<210> 38368

<211> 370

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-023-Q1-K1-F10

<400> 38368

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acagctagcg cctgctcccc ttncctgtg atcatgtctt gcagcagcgg caagtgcgac 120
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 ggcggcttcg aggcgccac cgagggcggc ggctgcgact gcaacacctg caagtgcggc 300
 accagctgcg gctgctcctg ctgcagctgc aactgagcgc cggccggccc ggcatggcg 360
 cgcacgagtc 370

<210> 38369
 <211> 143
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-023-Q1-K1-F12

<400> 38369
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 gctcgcataa cggaagaacc caaatccaat acaactgcaa accttctaac attcaaaata 120
 caaacacaag gtagtcgact cac 143

<210> 38370
 <211> 355
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-023-Q1-K1-F5

<400> 38370
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 gcaagtcggc cccggccacc ggcggtgga agaagcccca ccgcttcgc cccggcaccg 180
 tcgctgctcc cgagatccgc aagtaccaga agagcaactga gctgctcatc cgcaagctcc 240
 ccttcacgag cctcgtccgc gagatcggc aggacttcaa gactgatctg aggttcagc 300
 cctccgcgct cgcggcgctg caagaggccg ccgaggcgta cctggtgggt ctctt 355

<210> 38371

<211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-023-Q1-K1-F6

 <400> 38371

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 aaaaacctac catcgcttg ggggtgatgg ggaaccccc cctgataatt tccgtgctgg 120
 tggcgtgcaa catccttccc atgttcatcc gtggcttcta ttggaggac cccaacaaca 180
 gccttctgaa agtcattggt atcggggctg gaagccatga ccttctacat gttcaggccc 240
 aaacttggac atgcacagcg ctctcgcatg ttttaagagca ataatctagg tgctcaggcc 300
 aagttttgct atgcggttag aggaccatag cgcgctcagg tcatgcgcca tggggctgcc 360
 tatattctca gcaactgccga gatgcctgtt gccacttgca gatgcattgga 410

<210> 38372
 <211> 139
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-023-Q1-K1-F8

 <400> 38372

 gaccggaacg gaatgcccga cccaaccac ccgtccgcc actctttacg tccacgcac 60
 tattttttac tatatcacta gaacattcta cactgagctc gttgctagct tagtggtccc 120
 tcgctgagac tccactatg 139

<210> 38373
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-023-Q1-K1-F9

 <400> 38373

 ggggaggcgc cagaaagtat ccccggggtt ctgagaacaa cngcccgtgg aggtggcgcg 60
 cgcggtggcc cgcccaaag gagtacatat cccctgaaag aaatctggag gggacttgtg 120
 gagatcctgg gccgttattt gccgacaaa gtggcagctt gttggaccac ttgggttatc 180

aagggggagg aattccacaa catgagtctc caacactgga tcatggactt ttggttgatc 240
cagctggtgc aattccgtat ttatctacag attctccgcc cttcatgaat gatcaaatca 300
cttgcaatgt tataaaatct gcttcagcta gtccagaatc ttgtacaaaa caacctcaag 360
aacctcttaa tgtagaatct gatgtacaag atgacgcagc tgaacaaaat gttcacaata 420
gtaac 425

<210> 38374
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-G1

<400> 38374
gcggaggaca aacanacagc aagagagcgg atcgccgtaa ggcaaaggca aaggcaacgg 60
caacgcaagc cagaggcaga gcgcgccccg ccacgatgaa gaaggaggag gtggcctcgc 120
cggcgggcggc gacggtggtc ctgctgctcc tgtcgtcgtc gttggcgggc gtctccggcc 180
agccacagcc gcagccgcag cccgggggca gcaagcagac tgcggcgaac aaccgcggc 240
tgcagaaggc gtacgtggcg ctgcaggctt tgaagcgcgc ggtgacggag gacccaaga 300
acctgacgcg gagctggtgc gggccggacg tgtgcggcta cttcggcgtg tactgcgcgg 360
cggcgccgga cgagccgcgg tcgcagacgg tggccggggg ggacctgaac cacggcgacc 420
tggcgggga 429

<210> 38375
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-G11

<400> 38375
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ccactggtgg ctgcagtgtc tcatcttgca actatgatgg ctatgtcaat ggaaccattg 120
caacatcgct atcctcaggt cttcaaccca tgtgtccagg accgcatcaa tttccccac 180

tcacggcggt gccaaactgcg gcaaaccatg ggtcttattc tccatcacct gcaccaggac 240
ctggagatgc tgggtggtgcc accccaggag gttccagcct ttctccatca aatgagcctg 300
ctgggaacag ctcaacaagcg gctgcgataa atcaaccatg ccgtttcctc ctcattttca 360
ttctttctgt gacattgtcc ttgcgggtgt ggattcct 398

<210> 38376
<211> 424
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-023-Q1-K1-D8
<400> 38376

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gcgggctcgc tgccatggcc aaaagcaagc agctgctcca gggccgcacc ggcaccgcag 120
ccacgcttgt cgtctcctac ttgcgggtct gcggcgcgac ctcggttgctg ttccgtgcct 180
ctgtcggttaa gggacgcacc gaggagggga gcttcggcct ggccttgctt ggccggctgc 240
ttgtcggcgc cgtgctggtg tgcgttcttg tctctgtcaa tctgctagga ctgctcgtgc 300
agagtgtctt ctactacgcc tgcaaggcct tccacagcca gcagattgac cgcactgcat 360
tgtatgagca ccttggaggc taccttgggg agtacgtgcc actcaagagc aatatccaga 420
tgga 424

<210> 38377
<211> 354
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-023-Q1-K1-B6
<400> 38377

caagaaccac aagtttctgt tttattctta aacatggcca agaacatgga actgatcgca 60
caatgatata ctagaacaca acaccgtcag gaacgtggaa gtgagcacag acagtggtag 120
agtagtagga agacaagtcg agcacgatgg acagagtagg catcacccaa cagatcgatc 180
gtcatgagct cagaaggatt ttatgagatc aaccaaatcg gttaaatccg tgcggggcga 240
cgcagtttcg tcgacgtcga cgccgatgcc gatgcctttg gccgcagcga tcttgaattc 300

cttcacccctc tccttgatct cctccccctc cttggtgcc aagagcctgt cgat 354

<210> 38378

<211> 412

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-023-Q1-K1-B7

<400> 38378

aagagttaga gaatgaaggg attgtttttg tggaaaaaat tattcagaag cactttttgct 60

cctggtttaa gaagcatgtg agtttcaagt tcatatcctc agcatcaata attgacttat 120

tttcaccatg gattttttta tgtcttcaga ttgcaagttt gcgtttttgct gatggagaag 180

acattgatga tgacctatat gcattggcat gcgaacctga tttgcgagtt cgaatttttt 240

ctgcatgtct tgttgatggg gtccggtacc acaccattga ccgtgagaga aatagaagaa 300

cccaaatag tggagtcag gttgaggga ctcataataa tgaatgcatt gatttttatg 360

gctgcttaaa agaaattatc gagttgcagt ataactcana tttgatggag ca 412

<210> 38379

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-B8

<400> 38379

cccaaaaggc aaaccaacca ccagtcttac caccctccgc ctccgcctgc gccacagctg 60

ccgattcgaa agccctcgct ctgacccctc gcaaaacct agctccaacc accatgaagg 120

gcaaggccaa cgctccaag aaggatgagg gcaggctccg ggccggcggc ggccggcgcc 180

gaaagcgcaa gaaggccgcc gcgagcggca agcccaagcg ccctccctcc gccttcttcg 240

tcttcatgtc tgaattcagg caggagtacc aggcgcagca ccctagcaac aagagcgttg 300

gggccgtgag caaggcagca ggggaaaagt ggcgctctat gtcagagcaa gagaagcaac 360

cctatgtgga ccaagctggg cagaagaagc aggactatga gaagact 407

<210> 38380

<211> 242
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-023-Q1-K1-B9

 <400> 38380

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 gcgccgagga agcagttggc gactaaagcg gcccgcgaagt ctgcccctgc gaccggcgga 120
 gttaagaagc cccaccgctt ccgccccggt accgtcgcgc tccgggagat ccgcaagtac 180
 cagaagagca cggagctgct gatccgcaag ctgncgttcc agcgcttggg gcgggagatc 240
 gc 242

<210> 38381
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-023-Q1-K1-C11

 <400> 38381

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 acatgcaa at tgtgcagctg gtctttttga tgtcaagaaa atccctctac aaatggaact 120
 cattacgagc acggatgtgg tcatgaatct cttgaagaaa atggctcccc ctcttggtac 180
 tctttttgca gcaa atcctg aaattcacca tgta atcttg aggaacatta atctgatagt 240
 tcaaaagagg gctaccatac tccctcatga gattaatgat ttcttttgga agtacaatga 300
 ccctatatat gttcagatgg aaaagctgga gactatgatg cagcttggct cagatcgaaa 360
 tatacatcat gtgctcttgg aattc 385

<210> 38382
 <211> 279
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-023-Q1-K1-C2

 <400> 38382

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 gaggtgaggc actattctcc tctattgtaa ttcctaacc ttggacgcaa cctgatcccc 120
 aagaaagacc gtgcagcgcg ggctgctcgt tgatcatgcc agcggggaac agcaagcaga 180
 caaagcagca cgcaccacgg gccttcgctg gtctgcctgc ctgtgcaggc gtcngntaaa 240
 tgtattgtat ttgcagggat cctgtttaca gcgctagta 279

<210> 38383

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-C3

<400> 38383

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 tccggcgcaa gcgcaacccc aaccggcggg gggttcggac cgccgccggc cgggccaggg 120
 ggggggaacg ccttcgtgca ttaatactac aacattctgc accaatcggc ggagctcgtc 180
 taccgcttct accaagagtc cagccgcctt tggcgctcct ccggcaccgg cgacgacggc 240
 atggagacgg tcacctccat tgacgcgatt aacgacaaga tcgtgtccat gggcatcgac 300
 cgggcggaga tc 312

<210> 38384

<211> 270

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-C4

<400> 38384

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 aagatctggg aaagcatatt atcaaaagct tgatctatca cactggatgt cagagtttgg 120
 cagccatatac taatcaatca ttctcagtca ttaogcaaca tgtttgacaa cactatntag 180
 gaagacatgt tgacagataa tcataaagc gctaattgat catacacatc acacttcctc 240
 tctgctagca cgcctaaaca cacagatgca 270

<210> 38385

<211> 377
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-023-Q1-K1-C5

 <400> 38385

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 cttgacctat tgaacaaaac aaggctcagc tcgttgatcat cgctcatgat gtggatccga 120
 ttgaactggg tgtttggcct ccagccctgt gcaagaagat ggaggtccca tactgcattg 180
 ttaaaggaaa ggctcgctt ggatcgatcg ttcacaagaa gactgcatca gtcttggtgc 240
 tgaccactgt caagaacgag gacaagcttg agttcagcaa gatcttgag gctattaagt 300
 ttgatgaagt caagaagaag tggggagggt gcatcatggg ctccaagtcg catgccaaaga 360
 ccaaggccag ggaaaag 377

<210> 38386
 <211> 304
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-023-Q1-K1-C6

 <400> 38386

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 atagtgtctg tacatcattc aaacgcctat ttaaacaatc ttttcctcta ctgtacaagt 120
 actttcaaga agctcctgca aatacggctc gctggactga cattatccat tggatgtggg 180
 cactcttcat ggaaagtgg ggatcatgga gaaatgagtg tctgaatctt agccccattc 240
 ctttcacaga tccagtaacc aatcttctt tgtggcatgt gcgagaggag tcacctttat 300
 tact 304

<210> 38387
 <211> 429
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-023-Q1-K1-C7

 <400> 38387

cgacgcgctg ggcgcgagaa cgagatgtct agaccgcatn cagtgggtgn gctcggatatg 60
 ggcggaagcg aatgcgccct gngcgacgcc gctataggcg aggaaaccct aaattacgac 120
 ggcgatgacg ttgagatggc cgacgccgac tcggatacgg aggaagcccg agcagctgag 180
 gtctccgctg caactggagg atccgccgga ggtgttaggc aggcggagaa ggacggaccg 240
 gatggaaaga agaagaggaa gaagaggagg aacaaaggga agaagaacaa agggaggcaa 300
 gatggggcgc ccaccaacat cgcggacatt aatcgatttg ttcttaacac ttgcaagcgc 360
 ttgaaggaga agaagtcgta ccttgtctgg aatgctgttg gctgccttgg tgtcactgct 420
 gtcaatgat 429

<210> 38388
 <211> 237
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-023-Q1-K1-C8

 <400> 38388

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 ggagcgagga gcgagcgagc tcaactccgtg ttcaatcgag agagctcggt tagcttggcc 120
 aacgacgagc agagcagtag ctatgataga tccatggcga acgcgggcat gaagccggtg 180
 gccggactcc tgctgggtgct caacttgtgc atgtacgtca tcctggcggc ggtgggc 237

<210> 38389
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-023-Q1-K1-C9

 <400> 38389

cgtctcgctc gtggctgtcc tgctcatact gcttgccctc gccgtatcgt ccacccgcaa 60
 cgcacaggag gattccatgg ccgacaacac cgggacgttg gcgggcggca tcaaggacgt 120
 gccggggaac gagaacgacc ttcacctcca ggagctcgcc cgattcgccg tcgatgagca 180
 caacaagaag gccaatgctc ttctgggggtt cgagaagctt gtgaaggcca agacacaagt 240

ggttgctggc acgatgtact atctcactat tgaagtgaag gatggcgaag tcaagaagct 300
ctacgaagct aaggctctggg agaagccatg ggagaacttc aaggagctgc aggaattcaa 360
gcctgttgaa gaggggtgcta ggcctaaag atctctcctt ctccatgtgc gagcctgaag 420
ctcaaagcaa aagtgcagaa taagaatcat gctccctt 458

<210> 38390

<211> 394

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-D12

<400> 38390

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aatcagggga cacttggtga ctggaagccc aagaaacccg acatgcttgt tgatacattt 120
ggttttggcg ggatcatcca ggatgggatg gtgtttatgc aaaacttcat tattcgggcc 180
tatgagattg gtgccgatcg tactgcttct atagagacat taatgaatca cttacaggaa 240
acagctctta accatgtgaa gacagctggc ctttttggag atggtttttg cgccacgcca 300
gatatgagca aacgaaactt gatctgggtt gtcagcaaaa ttcaacttct tgttgagaag 360
tacctcttgt gggaagacac ggttcaagtg gaca 394

<210> 38391

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-D2

<400> 38391

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atcgcaagga caaatgaaaa gcattctgaa gttgcagcgg catatctaga ggcacagcaa 120
ataaaagcaa gagagcacca gcagcagatg cagatgcagc aattgcaact tatgcatcaa 180
agacatgctc aacttcagcg aactaacgcg aatcatcctt cacttaatgg tccaataaat 240
gctttaaatt ctgagggcat tttggggcca tcaacagcta gtgtcttagc tgccaagatg 300
tatgaagagc gattgaagca cccacattca atggagtctg agggatcaca 350

<210> 38392
 <211> 259
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-023-Q1-K1-D4

 <400> 38392

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 acatggccca cataaccggg ttcgtcgccg cccaggaagc tgcaaatect tttgaatatt 120
 gtgatgtggt taccacaacc acgcacaagt ccctcagagg gccaaagggt ggcatgatct 180
 tctacaggaa aggccttaag ccccccaaga agggccagcc agagggtgct gtttatgatt 240
 atgaagacaa gatcaactt 259

<210> 38393
 <211> 350
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-023-Q1-K1-B3

 <400> 38393

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 agatctagag ggcgggaacg tgatgctagg ggtagggatt ctggatcatg atagcagggg 120
 tcgtgactct gatcgcgaga gggatcggag acgtcgctct agggatagaa gttcaggaca 180
 ctcatacaag gagaaatcaa ggcgccatcc atcacacgac cgagttgact actacagttc 240
 gcattcatct cgtgaaaaag atcggcatag acaccattga tcccgggtct gcagggcttt 300
 gctgcatgga gaccaccaca tggcattgcc gacaagatca tgaaaacttg 350

<210> 38394
 <211> 221
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-023-Q1-K1-D6

 <400> 38394

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tctgttagca ggagtcttca tttgcgccag cacctgctga acctacactg gatcatttaa 120
gatccttggc gaggaagctg cttgctgggt atattgacat acccacaatc acaaacctga 180
gatgggtccct gggatactat taaaagatgg aaactattga c 221

<210> 38395

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-D7

<400> 38395

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ttaaagcgag cagggctgac tgaagaacaa ttgcaagagc agattgagca gagaaatgtc 120
gcaaggaaga ataagcagtt tgagatatct gatggaatca ggaaaaacct tgctaccaa 180
ggcatcgccc tgatggacga gccttctggt acagtatgga gaccatgcga accagagcgg 240
tctgaagagt catgattagc tcactgactc aacaagtgat ggtgggtgtaa aatgagattt 300
ttgcctgagg gcagttatca cattttgaag actaacaaaa atcgccatct ctggatgtgg 360
tattctacag ggtaggggtt ccaggttgac tcaccagtta aaacatgcat ttctggttgt 420
ataacaagca atgaaccccg tatatatac 449

<210> 38396

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H3

<400> 38396

gcgacacacg ctgacagctc acggctgacc ttcccgacgg cctccagctc catcttgatt 60
gttgaggcga agccccggtg cgtaagagtc tgccatggcc agcgagaata aggtcttttg 120
gttcgaggaa gtcgccaagc acaacgtcac caaggactgc tggatcatca tcgccggcaa 180
ggtgtatgac gtcactccgt ttatggatga gcatcctggt ggagacgagg ttttgctagc 240
tgtaaccggg aaagatgcta cagctgattt cgaagatatt ggccacagtg attccgcaag 300
ggacatgatg gagaagtacc acatcgggca gatagatgct ttaacaatcc cagcaaagcg 360

tgctcatgtg cagccccagc aagcaccc 388

<210> 38397
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H5

<400> 38397

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ccgcgccatc tcgcgctgct cctgccccctg ctactgctgg cctcgccggc ggccacgcgc 120
ctggcgctccg ccgcctgcgc gggcgagaag ttcccggcgg ggcgtgcgta cgcgtcgtgc 180
gaggacctgc cgaagctggg cgcgtcgtct cactggacgt acgacgcgtc caagagctcc 240
ctgtcgggtg cgttcgtggc ggcgcccgcg gcggcgggcg gatgggtggc gtggggcctg 300
aacccgacgg gcgagggcat ggccggcgcg caggcgctgg tggcgctggc gggggccggg 360
gccgcggcgc ccgccgtgcg gacgtacaac atcacggggt a 401

<210> 38398
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-H6

<400> 38398

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ggagggcatc cctccggacc agcagcggtt catttttgcc ggcaagcagc tcgaggacgg 120
gcgcacgctg gccgactaca acattcagaa ggagagcacc ctccacttgg tgctgcgtct 180
caggggtggc atgcagatct tcgtgaagac acttactggc aagacgatca cccttgaggt 240
ggagtcttca gacaccattg acaacgtcaa ggccaagatc caggacaagg agggcattcc 300
accggaccag cagcggctga tcttcgccgg caagcagctg gaggatggc gcaccttggc 360
tgactacaac atccagaagg agagcacctt ncacctgggt gctcgnnctc aggggtggtat 420
gcagattttt gtga 434

<210> 38399
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H7

<400> 38399

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cagttgtatg ttagcttctt tgagatatat ggtggcaaatt tatttgacct tctcaacgat 120
aggagcaaac tttgcatgag agaggatgga aagcaaaagg tttgtattgt tggtttgcaa 180
gagtatagag tgtccgatgt agagactatc aaggagtga ttgaaaaagg cagtgcctacc 240
agaagtactg gcacaaccgg tgcaaatgaa gagtcctcaa ggtctcatgc cattcttcag 300
cttgccatta aacgccgtgt ggatggcaat gactccaaac caccagacc agtcggcaag 360
ttgtcattta ttgaccttgc tggcagcgag cgtggtgctg atacaactga caatgataaa 420
caaacaagaa tcgagggtgc 440

<210> 38400
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H8

<400> 38400

gcggtggggc acgaacgagg cgctcatcat catcatcctc ggccaccgcg acgccgcgca 60
gcgccgcgcc atccgtcgcg cttacgccga ggccctacggc gaggagctcc tccgtccat 120
cacggacgag atctccggcg acttcgagag ggccgtgatc ctgtggacgc tggaccagc 180
ggagcgcgac gcggtgctgg ccaacgaggc ggcacggaag tggaagccca ggaaccgtgt 240
gctcgacgag atcgctgca cgcgcacctt caagcagatc atcgcgacca ggcaggcctt 300
atacgagcgg 310

<210> 38401
<211> 290
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-023-Q1-K1-A10

<400> 38401

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gaaatgaaca agcggtcctt caagtacgcg tgggtgctcg acaagctcaa ggctgagcgt 120
gagaaaggta tcaccattga tatcgctctg tggaagtttg agaccaccaa gtactactgc 180
acggtcattg atgcccctgg acaccgtgac ttcataaga acatgatcac tggtaacctc 240
caagctgact gtgctgtcct tatcattgac tccaccactg gtgggttttga 290

<210> 38402

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-A11

<400> 38402

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cctaggcttc tgcgcgtctg cctccaccct cgcgcgtgtg ccggttcccg gaagtaggcg 120
gcgcaagtgg aacgcgctcg tggctctgcg gggccccgat gaggagaaga ttacgaagcg 180
gtcgccccctg gatttcccca tcgaatggga gagacaaaaa cctgggagga gacctgatat 240
cttccttaag ttcagcccaa tgaagacacc attaccgcat ccattggcag ctgatgatcc 300
tctggatgat gatg 314

<210> 38403

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-A12

<400> 38403

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gacctcccgc ggggccaccc actctacgtc caccggtggt gggggtggct cgccttccaa 120
cagggggcggg cccgcgcctt cggccttcga gtaggtctcc acgccagcca gcgagagcac 180
cgtcgccccg cggctaaacc gacttgaccc ccacggcgac gacgctccat cgtcgcaacc 240

agccacgagc aagaagaaaa agagaggggc acgggcagtt ggtcctgaca aaaatggccg 300
 tggattgcgt caatttaaca tgagagtatg tgag 334

<210> 38404
 <211> 278
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-A2

<400> 38404

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 tgggtgggtg ctcaactcag ctccacctat ctttctctta tcttacgccg tcgtcgtcct 120
 gtcctggcga cggccaggca gccgagcaga taaaagagc cgaagcagca ccaccaccac 180
 gtgcctctct tctcagcttg cctgcctcac tgcacccggc cacaagggca agatgcccgc 240
 ctctgtcgtg gtctacccgg ccaagatggc atgctgtc 278

<210> 38405
 <211> 265
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-A5

<400> 38405

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 atcacataat atatgagaat cttaggaata aaccaagggtg cttatgagtg aaattttggc 180
 tttgcttttt taaaaatatt ggttcaagtt ggttctgaca gatgccactg cacaaatgga 240
 cgttgacacg ttgtagtgat cacac 265

<210> 38406
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-A6

<400> 38406

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 cgagaacttt taggccatac accaaccocat gtggttgctg gtgcattgct tgggtgtaca 120
 ataaccacag caggacaatt attcctttga actacgaagg tgcggcagaa atgttgtagc 180
 atttgtatcg cagggacttg agaagaagtt tctccagtgt tctgctactt taggtattgg 240
 taagatttgc aagttgggtg tgtagtgttg gtgaatgttg tatgttctga tggaaatgtgg 300
 ttatatgtca aaaaagtgac gttcacagga ttgctgtaca gaacatttgt catgggtatg 360
 attgatgaaa tctaacatgt ga 382

<210> 38407
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-023-Q1-K1-A7
 <400> 38407

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 taccocggaga acttctttct tctaaggggc aaccatgaat gcgcattcagt aaatcgcattc 120
 tatggttttt atgacgagtg caaacgcaga ttcagtgtaa agctgtggaa aacattcaca 180
 gactgtttta actgcttgcc agtgtcagca ttgatagatg aaaagattct ctgtatgcat 240
 ggtgggtctat ctccggagtt gaacaagctt gagcaaatac tcaacctgaa tcgccccaca 300
 gacgtgcttg atactggatt gctctgtgat cttcttttggc ctgatccttc caatgaagca 360
 acaggctggg ccatcaatga tcgtgggtgtt tcattcacat ttggtcctga taaaggttct 420
 gaatttcttg agagcatga 440

<210> 38408
 <211> 106
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-023-Q1-K1-A8
 <400> 38408

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 taatgcttta attcgacttt ctatatattg ntgaaccgtg ttgtcg 106

<210> 38409
 <211> 264
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-023-Q1-K1-A9

 <400> 38409

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 cttctccttg ctgtgggtga agatcgatcc ttcatctcc ccgacacaga aagctgccgc 120
 cttggggcaa tgtgggtgta actgctgata cagattggga cctcttatct gaagaggctc 180
 atccaaagat ctgccccctc gtgtaaatac ctgagggggc tagatgggaa ttttttgttg 240
 aaaatgagga tggacctcca tcca 264

<210> 38410
 <211> 307
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-023-Q1-K1-B10

 <400> 38410

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 tgctggcctc gccggcgggc acgcgcctgg cgtccgccgc ctgcgcgggc gagaagttcc 120
 cggcggggcg tgcgtacgcg tcgtgagagg acctgccgaa gctgggcgcg tcgctgcact 180
 ggacgtacga cgcgtccaag agctccctgt cgggtggcgtt cgtggcgggc cccgccgcgg 240
 cnggcgggatg ggtggcggtg ggctgaacc cgaacggcga aggcattggc ggcgcgcaag 300
 cgcttgt 307

<210> 38411
 <211> 414
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-023-Q1-K1-B11

 <400> 38411

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 tgggtgtggc gacaaacatg atgctgagtg ggtacactct attctggcag acgctgggtgc 120
 agctaataatg aattcttggga tcctacttcc atacctttgt gctgcattca tgggtgtccaa 180
 catttggaac ggtgctgttt atgatgtcaa tataggtgga ctcagtaaca atttgactg 240
 cctagcaagg tgtgtaagtg ctgtgattgg gggaagcgaa tacactcggg tcgaaaggga 300
 gcagcgaata aattctcttt caaatgtgca tacagatgag ctgcaagagg ccgagttacc 360
 gagccgtgtc tcagcagaag caaatatcaa atcttgtatg cagatctacg tcaa 414

<210> 38412

<211> 137

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-B12

<400> 38412

gccgatcatc caaagacacg ttggcggttaa taacgattag aatgaacaaa gggctcggaa 60
 aaagtcccat ttgatcgtc ccctccgggg aaaattgagt ggaggattcc aaaaaaaccc 120
 ccaaaacgag gccatt 137

<210> 38413

<211> 277

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-023-Q1-K1-B2

<400> 38413

tgggcgtggg ttgctgccc tctccaggcc cagattgact ctgttctgga tcttgcacgg 60
 tgcacaattg tgtccgagct ctccaacaag gatttcgact catatgtcct ttctgagtca 120
 agcttgctta tctatcctct gaagattgtc atcaagacct gtggcactac caagctcctg 180
 ctcaccattc caagaatcct tgagcttgcct gaagagctgt ctatgccact tgctgctgtg 240
 aagtactccc gtgggacgtt catctttcct ggcgcac 277

<210> 38414

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H2

<400> 38414

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gagcaggtct attcctaattg tgccgcgcgt catcaaaaag cctaccggtt ctactattgc 120
ctatcatctt tacaaaaaag ccaccaactt cagcgagaag aatatcctga cctattacct 180
tacacgtggg accctctatg tgaccctatt tacaactgac gaacgtttct ctcaagttaa 240
tgccctcagct cgcgactccc atctttgtac ctatgactta cacaacacga tgacctacca 300
ctttatecaa gactcccaga caa 323

<210> 38415

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G1

<400> 38415

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ttggatgggg ccctcgcttt gatagaacat agcaattgta gcgtcaaaaa taaacaagag 120
ttgggtagtt taggtaccgt gtttgcgttc attaaagtga agtattctgt atcaccacag 180
gtaaccttga ttgtggtgac tagttttttt ttgtttgcct caccgtgttc cagtccccct 239

<210> 38416

<211> 154

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G10

<400> 38416

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ggcacggagc ctgtaattgt attgtatgat aatgtgatcg aggggtgctac ttcccctcgg 120
cattcctagt gttgggttaa agtcgttcga cagc 154

<210> 38417

<211> 412
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-022-Q1-K1-G11

 <400> 38417

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 gatgcacggc tgcgcgtcgc tcgacgggaa ggtcgttgtg gtggcggacc gtggcggcctt 120
 gtccctacgat ccttcggcgc cacctgcgga ggcgtgggca ccggtgtcgc cgggtgcttga 180
 catgggatgg aagggccgag ctgcagtggg tgaggaatc ctctactctt acgattacct 240
 gggacaggtc aaggggtatg atccggacac tgattcttgg agcacagtgg aggggttga 300
 gagggagcta cccaagttct tgtgcggcgc cacgcttgcc gatgttgag gattgctcta 360
 cttggtttgg gaaggaaagt ggaaaggga attgaaagg aagatggaag tg 412

<210> 38418
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-022-Q1-K1-G12

 <400> 38418

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 accttgtagg acccaacaag agttgggtac ctaaaacca agcgtaaatt gtcttgcagg 120
 tttatgcata tgggggctca agctggatta tcgacagcgg atgcacaaac cacatgacgg 180
 aggagaagaa gatgttcacc tctacgtca agaacaagga ttcccaggat acgatcatct 240
 ttggagatgg gaaccaaggc aaggtcaaag gcttgggcaa gatagccatc accaacgagc 300
 actccatttc aaacgtatct ctagtagagt cgcttgggta caaccttctt tctgtaagtc 360
 aattgtgcca catgggctac aattgtttgg ttacaaatgt tgatgtttct gtctttaaga 420
 gtgatgggtc attagcattt aagggtgtat t 451

<210> 38419
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G2

<400> 38419

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tttgtgtatt ctttgcattt cttttattaa tataatctgaa ttatgaagca taactattac 120
ccaactgggt atagaagtaa gttgtgtttt ctctagtttt aatggtatca taaataagtt 180
taaacatggt tgaacaataa cttatttgaa caccgtagca atgtgtgagc actcttcaaa 240
tgtttggtat aaaaatactt gtaaatagat ttgttagttc ttactgcaa ccaaggatgg 300
tttcgattct gtggcgctga cgggtgtttc cgcgacctgt agcaggtccg acaactgcct 360
agaggcacac actagagcag acagaaagga tctctgtata ctctctgtga tcttgggaatc 420
agatcgttt 429

<210> 38420

<211> 373

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G3

<400> 38420

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aatcaaaca tttttgggga agtaggcattg aactaatgct gggaaacact ttcatttcca 120
ataaagagtc aacccaccg caaggggagg tgccccctca ggatttctct aggcgtgttt 180
tggaaggggt ccaagtcacc ccaatatggc atcaagggtt catacgtgat gatggaaggt 240
caaactacgt gccaaatgtc caaacagctc gctgggagta cagcactcgt ccagtttatg 300
ggtgggggtga tgtcaaatct aagcagttgt ccacagctgg ttggcttgca gcttttcctt 360
tctttgaacc tca 373

<210> 38421

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G4

<400> 38421

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cttcgtgaca ttcgaagatc gaagggcagt tgacagcgct atcaaagaga tgcgtggcca 120
agagttagat ggctgtacca tctcagtga caaggctgag cctaagatga atacagatga 180
cacaagggttc gacaatggcg gtggacgaga ctatcgaggt ggtagagggtg atgggtccacc 240
ccctggcaat tgctatgagt gtggccgtcc tggtcattgg gtccgtgact gcccgagtgc 300
tgttgggtggc cgttctggca gattcccgtc caagttcagt gatggtggca ggggagaccg 360
cttttctgga tcagataggt ttagtgatcg ttacatggat gatcgttatg atgggtgggtc 420
gtatgggtac c 431

<210> 38422
<211> 347
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-022-Q1-K1-G5
<400> 38422

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gggaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaggaaa gaaaatataa aagaaaaaaaa gcattaagat tgctacagtg aaacaaaaat 180
ggtttagttt agcaacacaa aaatacaata tacatggggg tggattaaca acgtattaaa 240
gggggaaaac aattgagata catgaactta gattggatgg aagcacattt cattttgggtc 300
aattggtgat aattggtaaa aggagcagaa ggatggcatt atgaaaa 347

<210> 38423
<211> 428
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-022-Q1-K1-G6
<400> 38423

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gcctgcgaag cttgtccgt tctttcgctt gcttgcctc actcctctat cgccttggcc 120
tgcttattgc ccagacagtt tctgcttgac cccacgattc ttcactgatg attcacagaa 180

agcttggcga gcacgtacat aacttgccga tcggacagtt gatggacggc acgagcccaa 240
accgtacaag tccacaataa tttctccctc cggctccggc tccgcctaga ctcaactcgtc 300
catgtcgcgc gccggccgct ccctgccccct gcccggtggcg gcgctcctgc tcgcggtggt 360
ggcgctgtgc gcggcgcggc gcgcgcgcgc gatcggcggtg aactggggca cgcagctgag 420
ccacccgc 428

<210> 38424
<211> 407
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G7

<400> 38424

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cttcaaggca ttggaatata acgcaacgat agatttctac tggtcaccac tactggtgga 180
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aattgagaag catgccagtg tctggaggga tgccgacatc attgtcttca attcttacct 300
gtggtggagg aagcagaagg atgacatgag gatgaaggtc atgtatggtt cgttcgaaga 360
tgggtgatgca aagttagacg agatggaaaa tgggtccatgg ttctcgag 407

<210> 38425
<211> 387
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G9

<400> 38425

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cgagcgggaag ccgctgtcag aggtgggtcgg cgactgcgtc cagcgtggt tccaggacgc 120
gtacaaggag gcgcgcaaag gagacatcgc caaccagggtg cttgtagcgc agatgttctt 180
ctcgggttat gggaccccca agaacgagta caagggaaaa caatggatgg atagagcatc 240
aaggttcagg tcttccgctt tgaaggttgg catgaaacgt ccaggatata atgcaagtga 300

ctcagactct gatgacgatg caaatgatga cgccaaccaa taacactcaa ttacaaattg 360
agttattagt taggagattc acaagga 387

<210> 38426
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H1

<400> 38426

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aagctggggg tgaaaggcct ggtggactcc ggcgtcaagt ccatcccgtc catcttccac 180
caccgcgcgg aagccctgag cgacataatt tctccggcgc cgctctgcc gccgtcgtcg 240
ccctccggcg ccgccatccc ggtggtggac ctctcggtga cgcggcgga ggacctagtc 300
gagcaggtga ggcacgcggc cgggacggtg ggcttcttct ggctggtgaa ccacggcgtg 360
gcggaggagc tgatgggcgg catgctccgc ggggtgc 397

<210> 38427
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-H10

<400> 38427

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tggtgaccat tctagaaagt ctgcagagca ggctgtaaag gcgatcaagg gcaaagagtc 120
cgggtgaacca gttccggagt atgactacct gccatacttc tactcccgat cattcgacct 180
ggcgtggcaa ttctacggcg acaacgtggg cgaaaccatc ctgtttggcg acagtgacct 240
cacctccagc aagcccaagt tcggctcgta ctggatcaag gacggcaagg tcttgggcgc 300
cttctggag ggcgggtcac cggacgagaa caaggccatt gccagggtg cgaaaacca 360
gccgtcggtc gctaacctcg aggagctcaa gaaggatggc ctccagttcg ccagcaagat 420
ctgagacgct cccgttccat gta 443

<210> 38428
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-022-Q1-K1-H11

 <400> 38428

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 cttgttagaa aggatgcaga gcacgctgca aaccgatca aggtcataac tgtacgctga 120
 accagttgcc caatatcact acctaccata cttctacttg caatcactag acctgccttg 180
 gcaattccac gatgacaatg tagtcgaaac catcctgctt ggagacagtg accccaccta 240
 catcatgccc aacttcgggt cgtactggat caacgactgc caggtcttgt gcgccttcct 300
 ggaggacggt ccac 314

<210> 38429
 <211> 445
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-022-Q1-K1-H12

 <400> 38429

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 gtcccagaag tcacgcacca aacaccacca ccaaagaagg cgagaacgta ctccgtccct 120
 cccctccct cccctccct tcccctcgag gctccaggac cgtctcctcg cctgctcatc 180
 cgccgctgct ccccttctct gggctcggag aaccggagag aagcgcgcgc ggccatggcg 240
 tccagcgct ctcggttcat caagtgcgtc acggtcggcg acggtgccgt gggcaagaca 300
 tgtatgctca tctgctacac cagcaacaag tccccactg actacatacc tacggtgttc 360
 gacaatttca gtgcaaatgt agttgtggat ggcaccactg tgaatttggg cctttgggat 420
 accgctgggc angaagatta caacc 445

<210> 38430
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-F9

<400> 38430

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tcggtttcgt gggtgagcgg atcgagatgg cggcgctcga tgttgagtac cgctgcttcg 120
tcggcggcct cgcctgggcc acggacgacc actccctcca caacgccttc agcacctacg 180
gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggcttcg 240
gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300
aggagctgga cggccgcaac atcaccgtca acgaggccca gtcccgcggc ggccgtggag 360
gcggcggccg cggcgggtac ggtggtggcc cgtgaggcgg cg 402

<210> 38431

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E6

<400> 38431

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aaggaagcag agcccaggc cgcgcgcccg gcagcagaga cggaggctgc tgctgccccg 120
gtcgaggctg ctgagccgga gatagccgcc gagaccaagg aggcggcggc tgtggaggct 180
aacgaggagg agggggaggc atcgcttgcg gttgctgcca ctctgaggt cgcagcgacc 240
gaggaggaag cggcgggtcc tgctcccag gcccgcgtcg ctgccgtcga gaagtccgtc 300
gagtgagtcc agcgccggac ggcgccgat ctagctcgct gcgtcagcct gtcacctggc 360
gtgcgccgct ctggtgccac tgccacggca acagcacggc atggcgccgg cataggtcgc 420
taggaaaa 428

<210> 38432

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E7

<400> 38432

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 tggaagcctt gacaagttca ttattggtat tattgcgctc ttcttattct cgtatgatca 120
 attgaattca cttgaagtaa ccattcttca aattcacatt ttgagagact gtttgctcca 180
 acagatgaaa atagtgtcca tgactgggtcc acacgctatg cgataatcaa ggggatctgt 240
 gagggtttga aataccttca cgaggaattg aatcctccta tttatcattt ggatttaaaa 300
 ccagctaata ttttgttga tgacaatatg atgccaaagc ttgcagattt tggcttgtca 360
 aagatttttg acaggaacga acacgaatca cacaaagttg tgt 403

<210> 38433

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E8

<400> 38433

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 aaccctgatt tgtttttagct gcttgtgttc gttttgtcta cttagtcttg cacactgagg 120
 acctttatcg aggttgtcag tctgcaagtt gaatcatggc ggagcacttg gcttcgatct 180
 ttggtaccga gaaggacagg gtcaactgcc ctttttactt caagattggg gcttgtcgtc 240
 atgggggatcg ctgttctcgt ctgcacaaca ggccaactat atcgccaact cttgtgcttg 300
 ctaacatgta tcagcgccct gatatgataa ctcttgagtg tgatgctcaa ggccaaccta 360
 ttgatcctga gaagatgcaa gagcattttg aggacttcta tgaggacatc tatgaggagt 420
 tgggcaagtt tgggtga 436

<210> 38434

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-F1

<400> 38434

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ctgttgcaat gatggttatg caaacaatgc ttggttcacg gaacaagagt gctgggtggag 180
gaaagcacat ggggttcagag cttgtgcaga gggcagcaat caatgacatc gctgagagtg 240
taatgggatt caatacgaat tacaaggaca ctggtctttt tgggtgtctat gctggttgcta 300
aggctgattg cttggatgat ttggcttttg caattatgca tgagatgagc caa 353

<210> 38435
<211> 447
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-F10
<400> 38435

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gagctcgctg gcgactgacc gccgcggag cagccgcccgc ctcccgtgg ttctgtacc 120
acagcctcgc aggagcgcct cgttcgcta cgccaccgc cactgtgctg tcggaaggca 180
gctcggacta ctgcgcgcgn ctgggtttct ccgcgctcgc cgccccttcg nccgcgtgat 240
caaggatgga gctacatcgt gaacctgctg aagctattct gaatgccata aaatttgatc 300
tcatgacgag tacggatatg gaaaaattga gcagcatgag cataatcgaa gtgagtgatg 360
tcactagtcc gaagctagga ttaccaaattg gttccctgca atgtgagact tgtggatcac 420
aacgtggacg cgactgtgat gggcatt 447

<210> 38436
<211> 392
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-022-Q1-K1-F11
<400> 38436

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agcaggaaag gcaagcagcg agaattgagga agggcaagct gtctcgtag aagatgatgt 120
cgggataagt acagacgcag atgaagagct tccggtatct gaagatgatc cagaagtgct 180
actgaggagg cttcaagagc ttgctgatga gaattattcg actgggaaca actgttttgt 240

tttccctgaa gtagtgaaag ctgattcgat gattgatctt tacttaaacc gcagcatgtc 300
ggccttagct agtgagtcg acgtttttgt aaaaggagca ttcaatgggt ggagatggaa 360
ccgtttcact tgaacaatgc atagaagcga at 392

<210> 38437
<211> 438
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-F12
<400> 38437

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tagcgaatgg cataagattt aatgctaaga agaaacaagt tggaaattat tactctacca 120
aggtatatac tagagcgaag agcgaacaac aatctaagat tgcagcaaga aagggtccagc 180
aaggatggag tcaggacttt tatccatgcg agaaggaacc agattatgta catgtatatg 240
tgtggataga actaaccgcc gatattatcc taaatctaag cacggtcacc cacaaaaaat 300
gtgtaatttg cttcttccca gacatacgaa atgtgttatg cggactatgt tggctattgg 360
aaaggcattc taaatgccgt ctgtaatggt tgatgggttat aaactatngt cgtgctatgt 420
aatatgcggt cttgacat 438

<210> 38438
<211> 439
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-022-Q1-K1-F2
<400> 38438

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cgaaacctga cccaaaagaa acaacgtcaa aggacgacac taccagtaaa gaaacagagg 120
aagcgtaccc ggagaaacct caagaggcca agaagtgcc tcagatctcg cgaaagagcc 180
tggacagccg attcgggaaa tccaaaacag tggatgttcc tgataaacca cggatgagct 240
cggacgacat cgacaagttc cggaggagca gatgcttggc ctggtgatgc ctgtgttctg 300
cacaaattgt cgaacagtac ctgagcgagg atactatagc atggaagtca agcaactgta 360

ttacatcatg ctgcgaggaa cggcatcagc ggttcctgca gcggagagga aaggactgtt 420
aaataagaaa aaaagaatc 439

<210> 38439
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-F3

<400> 38439

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gcgcgagttc ctgcacgtcg atgacctcgc cgacgccgtc atcttctga tgggtcacta 120
ctccggcatg gagcatgtca atgtggggag tgggagcgag gtgaccatca aggagctcgc 180
cgaactagtc aaggaggtgg tcggcttcca ggggaacctg gtgtgggact ccagcaagcc 240
ggacggcaca ccaggaagc tcatggatag ctccaagata caggggatgg ggtggaagcc 300
caagatcgcc ctcaaggaag gcctcgtgga aacctacaaa tggtagctcg agaattgtcat 360
ctcgaacaag aagtagagcc gtgacatg 388

<210> 38440
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-F4

<400> 38440

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ctttcgttgg tctcttcgcc ggcgacgagc acccagcagt tctgtagaaa tggctgatgg 120
tgaggacatc cagcctcttg tctgcgacaa tggcactgga atggtcaagg ctggttttgc 180
tggcgatgat gcaccaaggg cggttttccc tagcattgtt ggccgtcctc gccacactgg 240
tgtcatggta gggatgggac agaaggacgc atatgttggc gatgaggcac agtccaagag 300
aggtattctt acgctcaagt acccgattga gcacggtatt gtgagcaact gggatgacat 360
ggagaaaatc tggcatcata ctttctacaa cgagcttcgt 400

<210> 38441
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-022-Q1-K1-F5

<400> 38441

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 caggattctc aaatactata ttgggacaca caatttccat aacttcacta caagaaccaa 120
 ggcagaggat cctgcagcaa aaagatttat catttccttt gctgctgacc gtggtgtcag 180
 cctggatggg attgattttg tcagggtgtga agttgttga cagagtttca tgctccatca 240
 gatccggaag atgattgggtc ttgctgtagc tgtgatgagg aactgtgcac ctgaatcaat 300
 ttatgatgtc gcctttcgca aggatgtcaa tcttaatgtg cctactgcac ctgagggtcg 360
 actgtaccta gatgaatgta tgttcacatc atacaacang aaatggaagg attcacatga 420
 ggcagttttc atgga 435

<210> 38442
 <211> 423
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-022-Q1-K1-F6

<400> 38442

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 tgaaatggta gaaacctcca acacaaatga tgagaagcat agagaaacac tagatctaaa 120
 tagtgagcag agagcagaat cacccaaagc agatgtcaag atgagagcag agacacctga 180
 gaaagacaac gacctgccag ggggtccaact agtcactgac gatttgaatg ggcaccacga 240
 acagatgcaa gaaataaaat tggattgata agcatthaagc acaatgctcc cagcccaa 300
 atcttcgaca ccacgtaagt aatatcagag tatntatgat ctgatcacac ggtgccaggt 360
 tgtgacagca ctgagggtgg ctaagtttga aatgatactg gtccccctt ctttccctt 420
 cct 423

<210> 38443
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-022-Q1-K1-F7

 <400> 38443

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 tgtcacatgt cgtgtggtgt gggggcgctc tgatccggat ggtgcagcgc cgcgggatcg 120
 cccacggcca tgattgatcg cgaacgagca gaggaaatgc aagttaataa tgaggcacca 180
 ctagggtgcc tcaagccaaa tatttctcag tataactctc cagagcagat aggtggtgtt 240
 gaagggtttc ctgagaataa tgaaaaaagg aatgatatnt gtgctgcng 289

<210> 38444
 <211> 291
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-022-Q1-K1-F8

 <400> 38444

 cccggcccca cccacgcgtc cggtcggccc ttcgctccaa gagcatttta gttctcgggg 60
 taatacacgt ccgaggggtcg ggtgtacttt gcaagcggcg aggtgaaccc accgatctt 120
 taaacctagc tgatgcccaa ctcgttattc aacttagatg cgacaattgc actggaaagg 180
 gcatcgctaa ttaagctaaa catgtttgac caaagctca tttggacacc atcgcaaagt 240
 gtgagcacca ctcaaaagta tgggataaaa atacactgaa agacacatgt g 291

<210> 38445
 <211> 435
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-022-Q1-K1-E4

 <400> 38445

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 gccgcgctca tcttcagcct atccgcgctg gacggcaaca aggcgaggat cggcgagctc 120

ggcgcgatga ggccgctggt ggagctcctc gagcacggca gcacggcagc gaggaaagac 180
 gcggcctcgg ccattcttcaa cctgtgcacg ctgcacgaga acaagtcgcg ggccaccaag 240
 agcggggccg tcgacgtgac gctgagggcc gtcgcctgcg ccggggacgg ctctggctcc 300
 ggctcgctgg tggacgagtc tctggccgta ctgcgctgc tgtcgggcca ccacgaggcg 360
 gtggaagagg tcggcgagac gggctgcgtg gcctccatgc tccacgtcgt gaaggacgac 420
 ccgtgcaagc gcaac 435

<210> 38446
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-022-Q1-K1-D10
 <400> 38446

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 gcttgatctt gcacagcagc agcatggtgg atgggtgccca gttgcagcaa tggatgctat 120
 tgctaaaatt gtcgaagttg caccaatcag ggtttatgaa gttgcaacct ttatatccat 180
 gtttaacagg actaaggttg gtaaatacca ctttctgggtg tgtggaacta caccttgat 240
 gattcgtggt tcacgtgaaa tcgaagagac gttgttggag caccttggag ttaaacgaaa 300
 tgaggtgacc agtgatggtt tattttctgt tggagaaatg gagtgcattg gttgctgtgt 360
 gaatgctcct atgattgctg tggctgacta ctcgaaaggc tcagagggtt acacatataa 420
 ctactatg 428

<210> 38447
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-022-Q1-K1-D11
 <400> 38447

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 cccaaccac tgctccgcc gcctcgctc agctctctcc cacggtcccc ggctccgac 120
 tctctcccta tctctctct tccccgcct cgcgctctcc agctccggcc cctccacggg 180

cccgccgccg ccgccgccgg atgccgtaag gaagggggag ggagaggaag cggcggaagc 240
tagggccgcc gaagccgacg ccgaagcggg gaaggaggaa gagcatgagg ccgacggcgg 300
tgcgcacgtg aacaaggcca cggcgaggt cggcgccccg cgggggcccc agcccacgag 360
gtacggcgac tgggagcgcg ccggccgctg ctccgatttc t 401

<210> 38448
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D2

<400> 38448

cccacgcgtc cgcccacgcg tccgaataaa tagcaatgga ggtgcaaaat ttgatggaat 60
gccaaagttc accgctcgag ttgctgttat tgaggcgctg aaggaaaagg ggttgataaa 120
ggacacaaag aagaatgaaa tgagcttggg tgtttgttca agaactaatg atgtagtgga 180
acctatgata aaaccacagt ggtttgttaa ttgcaaccac atggccaagg cgggccttga 240
cgctgtaagg tcgaaaaaga ttgaaattat tccccagcag tatgagcaag actggtacag 300
atggcttgaa aatatacgtg attggtgtgt ctcaaggcaa ctttggtggg gacatcgtgt 360
acctgcatgg tatgtgacac 380

<210> 38449
<211> 435
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-D3

<400> 38449

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ggtcttgccc tcttgctgcc gctgcccccc aatcggcgcc gctttgcttc ctggtttccg 120
caaggttcca cacatcagca tccgagactt gggatggaag gcacggcgtc ttcttgagac 180
cgcgactagg gtgggaagga aagttacttg ctgccgtctt cgcggtcttt gcgcangcag 240
ggtagagccg gagatcagag atcttggtgc agacaagtcc ttcggcgtgc agggtaaata 300
tcgcctactt cttcttcaga tatatatgct tgtcggcgaa gtcctttcgc gttccgatca 360

tcagcttttc ttccaatttg tagttctctc taagcggaat ctttgngttc ttgaaagaga 420
gagagagaga gagag 435

<210> 38450
<211> 379
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D4

<400> 38450

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ttcaccagtt cgccgtcgaa gggagcaaga gtggtccgac agtgctggat accatgtcgg 120
cgcaggaacc attcgccac atccccgaag aaacgatccg agagggcgctc aaagttgtcc 180
ttgacgtgag aaaccagccg gtcctcatcc actgcaagag aggcaagcac cggactggct 240
gcgtcgtcgg atgcctgagg aagctgcaga agtgggtgct gtcctccgtg ttcgacgagt 300
acctgcactt cgcggcgccg aaggcgagga ccaccgacca gaggttcatt gagctgttcg 360
acgcgtcgag cctgatgca 379

<210> 38451
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D5

<400> 38451

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gtcattttca tgtgcacact atcaagctat atcagtcatt cagtactggg gtttaagcag 120
caatgcagca tctgaatca tgtgttaaata gataacaaca ataatgattt aaaaaataag 180
accttgctgt cccaccagg ccacagacct ggggttatcaa tgcttaagat tccaattgat 240
tctactgaaa ataccttttc tattgatagg tatgggcttc tacgaggaac cctcagggct 300
ccagccctgg gctggatgat gtacaatgtt ctggtagca atgaaaagtc gatccagtct 360
cagtacaagt cccacgtcta cgccaacct gacaacgtga cgccagatat catcgagagc 420
cgata 425

<210> 38452
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-022-Q1-K1-D6

 <400> 38452

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cccacgcgtc cggaacttgg ccccgccctcc cgtctctttac cgcacatgcg cgtcggggccg   60
cgtcgacata gctgcttgcc gccgacaccc gcagccgcaa tggccgtcgc ccacgcgccg   120
ccgcgccggg gcgtgctccc cctcctgctc gtcgccgcgc tcgtggcggc gttgccggcc   180
acctgcgccg cggccaggag caagaagtcg tacacggcca tcttcagctt cggggactcg   240
ctctccgacg ccggcaacct catcgtcaac ggcacgcca aggcgctcac caccgcgcgc   300
cctccctacg ggatgacctt cttccgcaag cccaccggcc gctgctccaa cggccgnctc   360
gtcgtcgact tcttgccga gcatttcggg ct                                     392
  
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<210> 38453
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-022-Q1-K1-D7

 <400> 38453

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ggttgagatt gacaacttca tggccaaca gcttgatgga acctccaatg agtggggctg   60
gtgcaaacag aagcttggag caaatgccat ccttgcggtt tcaattgctg tgtgcaaagc   120
tggagctatg gtgaagaaga ttcctcttta ccagcacatc gcaaattctg ctgggaacaa   180
aactctggtg ctccctgtac ctgcctttaa tgtgattaat ggagggtcac atgctggaaa   240
caagcttgcc atgcaggagt tcatgatcct nccaactggt gcctnctcgt tcaaagaagc   300
catgaaaatg ggaagtgagg tgtaccaca                                     329
  
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<210> 38454
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D8

<400> 38454

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gtcgaagtac aaagaaggcc ttactaggga ggagggaata cagattgtgt gcgaagcaat 120
ctgtgctggt attttcaatg acttgggtag tgggagcaac gtggacgtct gcgtgataac 180
caaggggaag acagaatact tgagaaacca ccagttgccg aatcccaaga cttatgctag 240
ttcaaaggga tacagtttca ccaaggggca gactgaagta ctgtcttcaa aggtcacact 300
tctaaagcag aaggttgagg tcgccgaagg tggatgatgt atggaggagt gatcttgcac 360
cctgcattca tacaagcata ttctgaatct gtgtaacttt gcttagtgga tc 412

<210> 38455

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D9

<400> 38455

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agagaggtta gctatagctt gcacatctat ttaactaact aactaactgg ctagctagct 120
cgatccgcag agcaaagcga aagcagcaag aagcaaagca atggagaacc ctgcgagtgt 180
gctagttcta ccagcgcagt tcaccaaact caccttcgga aacctgtaca tccgccgggc 240
cgggccgggc agcagggaga taaccgagga gggcaagtgc gacctggaca ggagatacgt 300
gagtaacttc cccgtctacy acggccgcgg ccccgacgcc agccttgtgg cccgcgtgca 360
ggggatcacc agcgaaatcg ggaacgcgca ccaactgttc cgtcgtgtgt tcgacaccga 420
caggct 426

<210> 38456

<211> 390

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E1

<400> 38456

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 gacatacggg gtcataaaac accgtttggg cgatctatct tatcgccctag tatctcaaaa 120
 gttcgaggat cctgccgaag gtgaagaagc tttggtcggc aaatttaaga aactgtatga 180
 tgacctcacc actggtttcc gcaatctcga agacgaggca cgggtgaacta gtgtagattc 240
 tgtgtaaaca aggactgcca aatgttttat aagatacata aattgtagat tgagatcatc 300
 tgtaagaatt attcccaccg ttgcaccatc tcttcggcac cactgtttta gtcacggtg 360
 cctgaatggc acccctgtta tttcatgtat 390

<210> 38457
 <211> 308
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-022-Q1-K1-E10
 <400> 38457

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 gatcgcgaaac caggccatac tagaggctctt tgccggctgt cggcgctgc acatcatcta 120
 cttgagaatc taacagggga tgcagtggcc ggctcttctg caggcgctcg cgctgcagcc 180
 tggctgcca atgtcgttcc ggctcaccgc cgtcagacca ccgtagcccg acgagaccga 240
 cgccttgtag ctagtgggct gtaaactggc ccagttggag cacaccatgc tcgtggactt 300
 gcagtacc 308

<210> 38458
 <211> 382
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-022-Q1-K1-E11
 <400> 38458

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 gcactgcagc catggacgcc agcggagccg gtagcaaggc gaagaagggg gcggctgggc 120
 gcaaggctgg cgccccagg aagaagtgg tgctcgcggtc cgtcaaggcc gggctgcagt 180

tccccgctcg cgggatcggg cgctacctca agaaggggcg gtacgcgcag cgcgtgggca 240
 cgggcgcccc cgtctatctc gccgccgtgc ttgagtacct cgccgccgag gtgctggagc 300
 tggggcggaa cgcggcgaag gacaacanga agacgcgcat cgtcccgca cacttgctcc 360
 tggggcatcg taacgacgtt ga 382

<210> 38459
 <211> 332
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E2

<400> 38459

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 gaccgatcgc ggagaggcaa tcacgtacgt atacacacgg gcacgtaact agctatctag 120
 ctagcagtcg tagagtgacg atgaggggtc tctctgttgc ggtcgctctg gtcgtggtgg 180
 tggccgcggc ctgcctcgcc gcgcccggg gcgcggacgg tgcggtcgag agctggggca 240
 cgccgagggg cagggtggtg ctgatgctgg cgacgcgcgc gtcggtggtg gaggacaatg 300
 ggtccagtgc gtccagctcc tgatggatgg cg 332

<210> 38460
 <211> 390
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D1

<400> 38460

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 ctgtcggcga cgccctcccc gacggccagc tcgggtggtt cgacgagaac gaccagctgc 180
 agcaggtctc cgtccacgcg ctgcgcccg gcaagaaggt catcctcttc ggcgtccccg 240
 gcgccttcac cccgacctgc agcaaccagc atgtgccagg ctcatcaca caggctgagc 300
 agtcaaagc caaggggtga gacgagatcc tgcttatcag cgttaacgac cccttcgtca 360
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<210> 38461
 <211> 386
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-022-Q1-K1-B6

 <400> 38461

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ttatagagtt gaagatatta ggactatatt aaacatagct gcatattaca tcagataaac  180
attgttgatg aatggggaac agcataccgg aaacaaatcc caggttgatg ttgcaagaaa  240
tacgtacgtc attccacttc acctggagac agtgcaaaat gggcctttgt gtgactgtcg  300
cccataaatt cttgtgaagc aaaacacaat tgctcattcg aagaacacca tttgaaggat  360
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<210> 38462
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-022-Q1-K1-B7

 <400> 38462

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atggttataca gatgaagata ttacgactat attaaacata gctgcatatt acatcagata  180
aacattgatg atgaatggtg aacagcatac cggagacata tcccaagtcg ctgttgcaag  240
aaatacgtac gtcattccac ttaacctgca aacagtgcaa aatgccccta cgtgtgactg  300
tggcccataa attattgaaa agcataacac aattgctcat tcgacgaaca ccaattgaag  360
  
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<210> 38463
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-022-Q1-K1-B8

<400> 38463

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gttctatgtg aatgtggaca aggaagactg gaagctggac aactgtgtg acctgtatga 120
gaccctggcc attaccaga gtgtcatctt tgtcaacacc cgccgcaagg tggactggct 180
cactgacaag atgaggagca gggaccacac cgtttctgcc actcatgggtg acatggacca 240
gaacactaga gacatcatca tgaggaggtt ccggtctggc tcttcccggtg tgctcatcac 300
cactgacctg cttgctcgtg gtattgatgt tcagcaggtg tccctgggtca tcaactatga 360
tcttcccacc cagccagaga actacctgca tcgtattggt cgtagtggtc 410

<210> 38464

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-B9

<400> 38464

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agcagcttgc attgcaggcg tagtacgtac ccagcagcag ctagcactag cagtccatcg 120
gagcgacgat ggtgagaagg acggtgctgg cggcgctgct ggtggccgcc gccctcgccg 180
gcggcgcgcg ggcgcagctc aaggaggggt tctacgacta ctctgcccc caggcggaga 240
agatcgtaaa ggactacgtg aaggcgcaca tcttccacgc gcccgacgtc gccttcaccc 300
tgctccgcac ccacttcac gactgcttcg tcaggggctg cgacgcgtca gtgctgctta 360
acgcgacggg cg 372

<210> 38465

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C1

<400> 38465

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agatcgcgga ccgctcaac aagatgctcg ccgtgctgga caccaacatc ctctgggtga 120

accctgactg cggctctcaag acacgcaagt acacggaggt gaagcctgcc ctgaccaaca 180
 tggctctccgc caccaagctc atccgcaccc agctcggcag cgcgaaatga gtcagatttg 240
 gtagatccat gggtttgttg acacaaaagc cagcaggggtc atttgtttcg aataatttgg 300
 gtccttactc ctgttccatg gcgttaggtt agcctcattg gtgttggtgg ggtacggcgt 360
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<210> 38466
 <211> 443
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-022-Q1-K1-C10

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 cttgaccagt ccagctcata aggagcagct tgaggagagg atggcccgtg tcaaggaaga 120
 tccatccttg aagccaattc ttgatgagat agagaatggg ggtccatctg caatggtgaa 180
 gtattggaat gaccctgagg ttcttcaaaa gattggccag gcaatgggtg ttaaccttcc 240
 cggagattct agtgtgtcca ctgtgctctc tggacccgaa gagactgagg aggaaggagg 300
 ggatgacgat gagtccattg ttcacacac tgcaagtgtt ggtgatgaag agggtttgaa 360
 gaaagcttta gaaggtggag cagacaagga tgaagaagat gccgagggaa gacnggcttt 420
 acattttgca tgtggctatg gtg 443

<210> 38467
 <211> 317
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C11

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 caagggatgg caaccggtag tgaggcctcg aaggcagctg aggtgtggt tgactggcat 180

aaacaggaca gcaagaggat gctccatgcg gattaccgtg ttggggatct ggaccgtaca 240
atcaagtact acacggaatg ctttgggatg aaactgctga ggaaaaggga tgttcctgat 300
gagaagtaca ccaacgc 317

<210> 38468
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C12

<400> 38468

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ccaactgatt taaacaacta cagactctca gatggcacca gatgttacat ctgactgaaa 180
tctacagcaa aaagcgttga agctaaaccc acacaagaca ctataatagc acttgctcct 240
ccactaacac tcaacgctga ggagcttgaa gaaacatcca aggcacttag atacgtacct 300
gaacatga 308

<210> 38469
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C2

<400> 38469

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gtgaaagtgc aagtaagacg cctgatggca cacctagtag gtcgaggaag aaatttgtcg 180
atgacggtac ttctagtaaa aggcagaata aagcgctcca gtatgatact gaggaggatg 240
aatccatgaa gtctgacagt gagggaaaaca tagatgaaga ttcagatgaa gctgctgaca 300
aacaggaagt tgactatgga tctgggaaag aaaaggcaag gaagaagtta 350

<210> 38470
<211> 393
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C3

<400> 38470

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agaacagggt cactcgctct tgctctcggt ctgtctaaac ctttgtgctt acacctggca 180

gaacgcacat atccaatata catccatcaa ccatagcacc aggtccaaaa gaaaaatcca 240

agaaataata gtcgacttaa atcagacatg atcaatcaag accaagcaat atccttctat 300

gtatgtacta gaacaaaaag atgtgacatg cacacattgt gttggatgtg ttggtatcat 360

caatcaagga ccttcttgac ttcctgaaca aac 393

<210> 38471

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C4

<400> 38471

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agtattgcag aaatcagcgt tttttttcac aggagaaatg tgggtttcag gaaaaaagca 120

ctgcattcca aaggggacct gaaattcgtg ctagattcat gtacaattct tacattccaa 180

agaggcccaa atgccagcaa gctaggatca ctgggtctct ttggacctgt gcttctctgg 240

gccatccttc ctgctccatc aaccatcatg ttgactttat gaagctgatc agatggggat 300

gcttgggaac catggagtgg gtttgctttg gcttctgggt cgggttttat taggtgatat 360

gggatctagc ctgtaatcga tggtttttta tttgggtcat tgtaaattta tat 413

<210> 38472

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C5

<400> 38472

cttggagata ggtggcccta gaaatttata tatggatcac caatcttccc caaatgagag 60
 acccatcaaa gcagcagatc atgaaaacaa ctccaaggag tcaatgatag aaaatttaga 120
 ggagccaact gttcgagctg ctgacctaat tgggtcaatg gccaaaaaca tggataccca 180
 acaggcagca agagctgcag aagatacccc taatttctct tccaaagtgc cagaagggaa 240
 aggtaagaat gaccagcatg ataattatgt tttgccatca cttgagctga gtttgaagag 300
 gtcgagatca tgtggagatg gtgccaacga tacagtcaat gacgatgaac agcggaatag 360
 tgcattaaag cgatcgaatc 380

<210> 38473
 <211> 440
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C6

<400> 38473

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 tgcaagtatg ccatcagga gaacatcgag aaggatatcg agaggagag gcgcagcaaa 120
 gacaaccccg aagctatgga agaagacgag gtagacgaca tcgctgagat caaggctgct 180
 cacttcgagg agtccatgaa gtacgccgt cgcagcgtga gtgacgccga catccgcaag 240
 taccaggcct tcgccagac actccagcag tcccgcgggt ttggcagcga gttccggttc 300
 cgcgaccaac cgacggcagc tgctgctgca gccgatccct tcgcatccgc tgcagcagca 360
 gctgacgatg atgacttata cagttaaatt agcagtcctg tgttgtgacg catattgaag 420
 actttgcttt cgtatatgct 440

<210> 38474
 <211> 361
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-022-Q1-K1-C7

<400> 38474

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 gccgtctgta tctggaaatg aaacctatgt gaacattgaa tatgaagctt ctgagatggt 120

tgatctgcac aatgttgtca tatctatacc tctgcctgca gttcgggagg ctccaagtgt 180
cagacagata gatggagagt ggaagttgga ctcaagaaac tctgtgttgg aatggtctat 240
tctccttatt gatcagtcga atcgcagtgg ttccatggaa tttgttggtc cccagctga 300
tccgtcatca tttttcccca tctctgntgg attttctgca tcgagtactt tcagtgatct 360
g 361

<210> 38475
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C8

<400> 38475

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atctgttctt tttgactggg agacagaaat atatgtagca agggcacctg gacgtttgga 120
cgatcatgggt ggcattgctg attattcagg gagtcttggt ttgcagatgc ctcttcggga 180
agcttgccat gttgctgttc agagaaacca tcccagcaag cagaagcttt ggaaacatac 240
aaaagcaaga cagcttggtt acggaagctt ggtacctgtg atacaaattg gatcatttgg 300
ttctgatttg agtaaccgtg caccaacttt tgatatggac ctgtcagatt ttatggaatg 360
a 361

<210> 38476
<211> 441
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-C9

<400> 38476

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ttcttctgca gcaggtcgct ggagatctcc tgaagcagta ccaggagaag ttttaaggag 120
ggacactttc agtcacttgg aattacttaa gggactccat gggtaacctac ctgtcccagc 180
ctaatacctgt cactgcccga tgggaggggtg aagatcatct gcgggacccct aatttccagc 240
tggtatgcatt cagataccga acatctcgggt tgctacatag tgttgctgct cggcttcaga 300

aacacagcaa gacgcttgga ggttttggtg cgtggaatag atgtttgaat catcttctta 360
cgcttgacaga atcacacatt gagtctgtca tccttgcaaa gttcattgaa tcagtgaaaa 420
gcttgccctga cgaaaaatcg c 441

<210> 38477
<211> 436
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-B5
<400> 38477

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ttcgtgctga ggctcaactg ctgatccgtc ttccaagctc tggatcatc cctgagcact 120
gatttaagat gtatctccag tactacatca acgagaaggg ggacaaggctc tacaccacca 180
agaaggagtc acctcttggg gtgccaacgc agtctgctca cccagctcgg ttctcacctg 240
atgacaagta ctctcgccaa cgatacctgt tgaagaagag atttggactt ctgccaacgc 300
agaatccagg accgaagtac tgaagcttca agtcaactgt ccaacctgcg atgttctttt 360
tgtgtcaatg cttngtggtt ggaatgtact atcttcgttc tcgaatattt gtggtccgct 420
agttcaattt tgaact 436

<210> 38478
<211> 331
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-021-Q1-K1-H8
<400> 38478

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gccgcggctc cgaagccgaa gcctgccgcc gccaaagccga aggcggccac cgctggtgcc 180
gtccaccgc cttacttcga gatgatcaag gacgctatca cggcgtcaa ggagaggacc 240
ggctccagct cgcaagcgat cgccaagtat gtgggggaca agcacggcgc gtctctgccg 300

gccaaacttca agaggatgct ttccatccag c

331

<210> 38479

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-H9

<400> 38479

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tcggcggcct cgcttggggcc acggacgacc actccctcca caacgccttc agcacctacg 180

gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagaggtcc cgcggcttcg 240

gcttcgtcac cttctccacg gaggaggcga tgcggaacgc catcgagggc atgaacggca 300

aggagctgga cggccgcaac atcacctca acgaggccca gtcccgcggc ggccgtggag 360

gcggcggcgg cggcgggtac ggtggtggcc gtggaggcgg cggctaccgc ggtggcgggc 420

gccgtgat 428

<210> 38480

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-A1

<400> 38480

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aacagcccgc cattgtgcaa ggaatctgat gatgcagatg ctgcttgga tgtaccgttg 120

gaagcatgca tgcacaaact gcctggtggc tcaaaagtcc gaggatcaaa atggccagag 180

ttatggccgc aaaggcttga gaagaccctt ttctggattg atggttcaa ggttggtgtc 240

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agtaaatact atgtgaatgg catgggaatt gact 334

<210> 38481

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-022-Q1-K1-A10

<400> 38481

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gccatgccta taactatgct cctcagtggc tggccgcggc catgctccgg aacggcgtgg 180
aggcatggca tctcggcgct gtctgcctca tcggaaactg cttcctgatg ggcgcttacc 240
tcgtcatcca ggccccgggt ctgatcaa atccccgcgag cttatccctg accgntact 300
cctactcctt cgcaaccttg ttcattgggtg tcaccggcgc gttcgccacc agtgggcttc 360
acgagtgg 368

<210> 38482

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-022-Q1-K1-A11

<400> 38482

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gccgccgcg cgcgcgcgc tatgcctcgc cgcagctcag gaaggtctgc cccacgcca 120
gtccccgtg ctgctccagt gaggaacccg ccacagccag cagccaggc tcctcctcca 180
gtcctgttc gagatgggtg tggctccatg tttggaggaa tcgggtccac cattgctcaa 240
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ccccggacca ttcagcatga gactgttgcc tcagaagctg ctgctgctgc cctgcccc 360
ccagtgatga atgctgacgc tngcagcatn cattctaagg ctttccaaga ttgtctcaac 420
aactatggca gcgagatca 439

<210> 38483

<211> 300

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-A12

<400> 38483

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gcactaccag cgtctgccct tcgcaaata gcgatttccc gcaccggaac agttcggggc 180
ttcacctgac gctgcaccac ccgcagagcc cctgctcgcc ggcgcgcctc ccgtccgacc 240
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<210> 38484

<211> 384

<212> DNA

<213> Zea mays

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<400> 38484

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gagcccaccc tgctgcctc gccgcgatcc ctccgcgcgt ctcgaggctc ctgtcctgaa 180
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atccgccgag attcggcgtg aggcgaggtt accgacttcc cttgcgcgta gggccggcag 300
gagcgcgcgc tggccatggc gtgccggggc ttctttgagt gcgtcctcaa gctcctcaac 360
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<210> 38485

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-022-Q1-K1-A3

<400> 38485

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gctgttcgag acggggggcg tgcagctcga gctcatcagg gatgccgaga ttgagccgtg 180

tgcctacgtg aggtgggagc aaggagggcc gagaggatcc gcttcatgag ttggatgcac 240
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atcgatcaag tggattagca ctcttccttg tctgctgat ctgtagaaca nggataagtc 360
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<210> 38486
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-A4

<400> 38486

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tcataagcta ggtggccagt tccacctgag ctccagcttc tctgaagggtg tacgggcccg 180
taacatctgc ctttctttct catcttatga aaggagattt gccacgagga actacatgac 240
ccagagcctt tggggccctt caatgtctgt tagcgggtggc atcaatgttc cagtgatgcc 300
gactccgctt tttgccaatg ctccagccga gaaaagtggc aaaaacttca tgaatgattt 360
cat 363

<210> 38487
<211> 357
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-A7

<400> 38487

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actctattaa cccctcttcc aatacaaaag gcgtgcacct ccagctcata ctggatgccc 180
agatcgagcc ctgtgcctac gttaggtggg aacaaaggag gccacagga tccgctttat 240

gaaatggatg cacacgatag accgtggaga tcccaccttc tcaatgcggg agatccacaa 300
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<210> 38488
<211> 369
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 38488

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atggatatac tctacgaatg ctatgaagat gtggcctctg gaagtgaat cgggagcgtg 180
gtgttggtg ggcggaggtt ttatgagaaa gagggcctnc cagcttttcc gatgggcaac 240
atcgaccaa ctcgcacgtg gaaggttggt gaaaagggtgc gctcaaccgc tccggaaagt 300
gatcttgccc cgctccatgc ctttactgct ggaatgtaca ttgccctgat gatggctcaa 360
attgagatc 369

<210> 38489
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-B10

<400> 38489

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gcaccatgta tcctaccttt cctcttccgg acaagtgtgc agatgacaag ccgttggtcc 120
aaccttacca agtttcaaag gagaggataa aaggcttagg cttcgagtgg attcactctg 180
gacacgaccg tcaaggacac catcgaaggc tagaaagaga gggggtcctg tggtttgaga 240
ctcgcgcact ctgagacaca taagtgcacac gtgctatacg agatgtcaca ttgtacacac 300
gtat 304

<210> 38490
<211> 355

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-B11

<400> 38490

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cccacgcgtc cgccgacgcg tggcttcttt aggagcctag ctcatcgtac atcgaggagg 60
cttcttttga aaaaatgcc acaagtatag ctaagctgat gtagacaggg tctgacactc 120
gttgctagaa atgaactctg gaaattaact tgagtcctccc aatgattgca cactgtaacc 180
ccgctgggat atatattgta caactctcac gctaattgaa cgaatgctgc tgccaagaat 240
aaatgatcta tctggctggg gacaaatgct gctgacaagg ggcgatcgtc taacaggctc 300
caagcttacc tagccgggtc tgcaccttca tgactcttaa attgtgtcac ctaaa 355
  
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<210> 38491
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-B2

<400> 38491

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agagaggatg ggtggcagcg gcagggtctg tctgctgctg gccctgggtg tgggtggccgt 120
gagcctggcc gtggagatcc aggccgacgc cgggtacggt tacggcgggc ggtacacccc 180
gacgccgacg ccggccaccc cgaccccgaa gcccagagaag cccccacca aggggcccga 240
gccggacaag ccgtccaagg agcacaagcc gaccaaggag cacggggcga agccggagaa 300
gcgcgccaag gagcacaagc cgacgccagc cacgtacacc ctgagcccca caccacgcc 360
ggcgacgtac actc 374
  
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<210> 38492
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-B4

<400> 38492

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gtgacagttg tacatgcctg tatcaagtgc ctttgtgctc tgagcggagtc agcaggtaga 120
 ggtccaggat tagtggaaaa ccttgtcaat attttctaca agcatctgtc tggagctaata 180
 tcagatagtc agttattggg tcgatcactg ttttgtcttg gactcctcct tcggtatggg 240
 tatcaattga tgcaaacatc tgaaaatcag cttgattttc ccaagattat caacttgctc 300
 cagagaaaaat atcttctcag ggatgatttt agcttgaagg ttcgagcttt gcagactttg 360
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<210> 38493

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-H7

<400> 38493

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 cgctgctgct gctggcgggc ggggcccggg cggcgtctgc ggcggtgagc tgcggcgagg 180
 tgacgtcgtc ggtggcgccg tgcctcgggt acgcgatggg cagcgcggcg tcgccctccg 240
 cggcgtgctg cagcgggggt cgctcgctca acagccgcgc gtcgtcggcg gcggaccggc 300
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<210> 38494

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G4

<400> 38494

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 ttccaataat ccaaggtaac cgaaagcagc agcggagggt gcaagaacac ttccctcctc 180
 tccggatcaa tcatcgatca gccaaagcccc tacaaaaaaa ccatcgccac atgttggtta 240
 atcccacgac gcactgatat ttttcttctt tgattgtctt gctgctatct ataatcgatc 300

tccagcttac agcgacgtcc aggtccaggt ctgagctcga ggcacaggac tccctctata 360
 atttatccat ccatggcttc ctccaattcc aacagcagca gcaacccgct tgaagccatg 420
 ggcgcttct tctcg 435

<210> 38495
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G5

<400> 38495

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 ttgtgagaga aagcttccag ctctactctg atatctgcga ggtgctggcg gtgctgctgg 180
 acagattctt tgacatggag tatgcggagt gcgtgaaggc ttttgaggca tatgctagtg 240
 ctgcaaagca gattgatgag ctctctgcat tctatgcatg gtgtaaagat actggagttg 300
 caaggtcatc tgagtaccca gaggtgcagc gtgtcactga taagttgctg gagacgctag 360
 aaaagttcat gatggaccgg gctttccctt caaatggtgg caacgaggtg acttcggca 419

<210> 38496
 <211> 456
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G6

<400> 38496

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 ggcaccgaca ctgaagaaaa tggaggtggc ggatgtctaa aattatttac aaactggccg 120
 ttgatgtcag ctattacttt atattgtatc ttctctcttc aggatgtggc ttatgcagag 180
 acattctctc tttgggctgt cagtgcagca tcgtttgggtg gattaagctt tactaccaca 240
 gatgtgggca atgtccttgc gatgtcaggt ctcttccctt ttctatatca aatgttgatc 300
 tatccgttcc ttgcaaaaac ggtagaccac atcacattag tccgtgcagt ggcgttattg 360
 actctaccgg ttcttgctag ctaccattc tttacttcga tgtccaggtt cgggctcatg 420

gtggtagtaa attgtgcatc ttttctgaag aataca

456

<210> 38497

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G7

<400> 38497

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gtcagttgaa ccatggcgga ctccaaggcc acctcggcgg tcaccctccg caccgcgaag 120
ttcatgacca accgcctcct ggcccgaag caattcgtgc ttgaggtgat ccaccccggc 180
cgcgccaacg tctccaaggc ggagttgaag gagaggcttg ccaaggcgta cgaggtgaag 240
gacccaaca ccatctttgt cttcaagttc cgcacccact tcggaggagg aaagtccact 300
ggtttcggcc tcatctacga caacctcgag gctgccaaaga agttcgagcc gaaataccgc 360
ctcatcagga atgggtcttg tactaagggt gagaagtccc gcaagcaaata gaaggagcgg 420
aagaacaggg ccaaga 436

<210> 38498

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-H1

<400> 38498

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ggccaggcca acagttttga ggtggtaatg ggcgaccagg ctaaccaacc cactgtcctt 120
cataagctag gtggccagtt ccacctgagc tccagcttct ctgaaggtgt acgggcccgt 180
aacatctgcc tttctttctc atcttatgaa aggagatttg ccacgaggaa ctacatgacc 240
cagagccttt ggggcccttc aatgtctgtt agcgggtggca tcaatgttcc agtgatgcgg 300
actccgcttt ttgccaatgc tccagccgag aaagggtggca aaaacttcat gattgatttc 360
atgatgggcg gtgtttcagc tgctgtttcg aagactgcag ctgctcccat tgaacgagtg 420
aagctgctta ttcagaatca ggatgagatg at 452

<210> 38499
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-021-Q1-K1-H10

 <400> 38499

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ggaccttcgg cgcccgttca ggatccacat cttcccagagc gagttcttgg ttgacctctt 180
cctcttcgga ccacctccaa ggctcttggg gtagcttgcc actctcacca atcaagtttt 240
catgtctgat ctgcacattc agatcccaac tgccttcgat cccttcgctg aggccaatgc 300
tggggactct ggtgcggcag cagggtcaaa ggactacgta cacgtgcgca tncagcagcg 360
taatggtcgc aagagcctga ccaccgtcca gggattgaag aaggagttca gctacagcaa 420
gacctcaaaa gatctcaaga aagagttctg ctgcaatg 458
  
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<210> 38500
 <211> 410
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-021-Q1-K1-H11

 <400> 38500

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gaactactac aacctgctgc agcaaacccc cgatgtcgtc caccagttct acagcgaagc 120
cagcaccatg gtccgctcgc acgacctcac cggcacgacc gcggctgcca acaacatgat 180
ggacatacac tcaatcatca tgtctttgaa cttcacccaa attgagatca agactgccaa 240
ttttgtgaac tcatggggcg atgggggtgct agttatggtc tctggtctag tgcagaccaa 300
ggagtacagc caccaaagga aatztatcca gatgttcttc cttgcccctc aagagaaggg 360
ttactttgtc ctcaacgatt actttcactt cgttgaccaa gaacatgtgc 410
  
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<210> 38501

<211> 321
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-021-Q1-K1-H12

 <400> 38501

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 agtactatgg cgacgacgac gacttcgacg acctctacaa cgacgtcaac gtcggggacg 180
 gcttactcca cgctccac caggcgccgn cgtcgtgcc gtcgtcacct tcgactcagc 240
 aggccccacc gccgcagaag caccagctcc ctccgncgtc ccagcagctg ccgccgacct 300
 agcagcatcc acctggccac g 321

<210> 38502
 <211> 379
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-021-Q1-K1-H2

 <400> 38502

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 gtccttcata agctatgtgg ccagttccac ctgagctcca gcttctctga aggtgtacgg 180
 gcccgtaaca tctgcctttc tttctcatct tatgaaagga gatttgccac gaggaactac 240
 atgaccata gcctttgggg cccttcaatg tctgttagcg gtggcatcaa tgttccagcg 300
 atgccgactc cgctttttgc caatgctcca gtcgagaaaa gtggcaaaaa cttcatgatt 360
 gatttcatga tgggcggtg 379

<210> 38503
 <211> 447
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-021-Q1-K1-H3

 <400> 38503

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 tgaccacgat tttcgtgtgg atgtttctgg tctgcaaact gatgtgactc tagcatctta 180
 ttcaaaggga aacagcaaac acatacatgt ctggcatggg aatcatcacc accattacag 240
 acagactgta agagctgagc atgcagttga agatagctcc caacctagtc atgcttctga 300
 agggaagtcg catccaaaag ggagtgttct ggcaccgatg gctgggttgg ttgtgaaagt 360
 tttgcttgaa gacggtgctc aggtggacgc aaggcagcct gtcatggtta tggaagcaat 420
 gaagatggag catggtgtga aggcgcc 447

<210> 38504
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-021-Q1-K1-H4
 <400> 38504

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 caccacattt ttcttcactt cttgattcag caatttttcc agcattagca ttgaatgaga 180
 aggatataga agaatgggag gaggatactg atgagtatat gcaaaagaat cttccttctg 240
 aacttgatga catttctgga tggactgagg atttggtcac tgccagaaaa agtgcaatca 300
 atttacttgg tggtatagcg ctatcaaagg gtccaccagt tgcactctga gcatcaaagc 360
 gtaagaaagg gtgataaaat aaagggaat ctgaaatgag ctca 404

<210> 38505
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-021-Q1-K1-H5
 <400> 38505

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cagatagtgc tattctcgct ctgaactgca gtggcattgt tcttggaacg cttcctgtta 180
 gggtgagccc atcaaagaca ccagtcgct cgcgatcgcc ccgtgtgacg tcatactgaa 240
 ttcggtcat ctgaagccgt cgtccagggc agcaaatttc tgggcaacaa agccctagtc 300
 gtgtggcctt agagactgcc gcatcgcgga taagtaattg tcgttgagca gagttctccg 360
 tggttaaagt ccagtctagt aggaagcgca aagaccgctc tgtatggctc ctgggagatc 420
 tatcttgacc ttctttttct ggtctttt 448

<210> 38506

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-H6

<400> 38506

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 cagtatgtgt tccactcgtg cgccctcaag gcggcgcttcg ctgagttcat ctgcaccctc 180
 atcttcagat tcgccggcca gggctccggc atggtcttca ccaagctgac cgggtgggggc 240
 ccgactaccc cggcgggcct gatcgcggtc gcggtggcac acgcgttcgc gctgttcagt 300
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<210> 38507

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G3

<400> 38507

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 ctcttcatcc atctccacaa ggataatcaa ggaaggaagg ccatggtttt gttcgaactt 180
 gacccggaca tcatccgatg gggctctcac catctcctcc ccgctccggc tggatactct 240
 cctcattgtc gcacccaaac caccctacc acaccttgta cagcttttgc tcgccctcct 300

catcagccca tcggagacat gggtagctca agctccgttg agatcaaggt cgagcatgtc 360
gatggggttg acaacgacgc gatcatcgca caagccctcc aggaggaatt gtccaatgt 419

<210> 38508
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-F11

<400> 38508

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gccgtggcgg tggccgcgcc ctgcgcgccg ggcaccttcg ccgtggtcag gtccgccaag 180
gtcgaccgct gccaggagcc cgccacgcta gcagcaaccg aggccaggcc cgccgtcgac 240
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ggcgccgnca tggcgggccc caagaacggg acccccagag cgaagaagaa gtacgcgggc 360
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<210> 38509
<211> 347
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-F12

<400> 38509

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gatacatagg aatggaatgc gcagccgctc tgggtgcca caggatgaaa gtcactgtcg 120
tcttccccgg aaaacacttg atggcaaata tgttcacacc gaagatcgct gagttttacg 180
agaactacta cgaatcgaaa ggagtcactt ttataaaagg aactgcgggt tcatctctgc 240
agatctcgtc tgggaagggt acggcagcaa tcctgcgaga cggcaggcgc ctacctgcg 300
acatggtcgt ggtcggcatc ggcgcgcgcg ccaacacgga gctcttc 347

<210> 38510

<211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-021-Q1-K1-F2

 <400> 38510

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 actccaggcg cttatagttg agttccttgg caagtttgcc tcaacggtaa ggctaagttg 180
 gcagctgtgg ttggtatcta taggtcttgc tttcttcggc tggccgctgg cattcgtggg 240
 gaagcttatt cctgttccta aacgtccatt gggagaattc tttgcatgct gctgtatctg 300
 caaggggagc aaacaagccc ctgacgacgc aacctctaata gataaggaag acaacaagcc 360
 cgagccttga gatgtcagca agattgatgg ttgccaacaa tgaccttggt gctgttctta 420
 cccggttttg a 431

<210> 38511
 <211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-021-Q1-K1-F3

 <400> 38511

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 tgtagataat tatgcaattc ggtatactgc gtaaaaatct gctacaggct gcatgcacac 180
 gaattttatga tggaaagaat atgcaatgaa aggaaatgaa ttgcatgcat agaaacaaaa 240
 aatcacattt aatgttttat ttgcttcata aatataggat ccctgcaaca gccatgcaac 300
 taaacgcatt agaactagtt tatgatgtat actgaaacaa attatactac acggtgtagg 360
 taattatgca attacttaca ctgcgtaaaa aaatctggca t 401

<210> 38512
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-F4

<400> 38512

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cgtcgactcc ctgcgcggcg gccaccgcgc tggatctgga tggcaacccc atcgcgcccc 180
tcaccatctg catgatcggc gccggcggct tcatcggctc ccacctctgt gagaagctaa 240
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tcgtcgaccc cgcgcgcgacg cacctcgccg ggcgcattctc attccaccgc cttaacataa 360
aaaacgactc caggctagag gggctcatca agatggccga tctgaccata aacctggccg 420
cgatc 425

<210> 38513

<211> 265

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-F5

<400> 38513

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atactcgaag tgctgacctt gaaacggtct ctgggcaatt actacacagg caagaactgc 180
gggtatatcg ggtaccacag ccttaaaggc ggatatgtga ctgcagatga aaaggtgcca 240
agagaactgg accctgacac gactg 265

<210> 38514

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-F6

<400> 38514

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tttgcgggcg cggtcccatg ctgtgctggc ccttcttcgc cgagcagcag accaactgcc 180
 gatacaagtg caccgagtgg ggcacgga aagagatcgg tgacgatgta cagcggggcg 240
 aggtagagtc gtcatacgg gaggccatgg agggggagaa agggcaagag atgctccggc 300
 gcgtgactga actcaggga acgcccgtgg ccgctgcagg gcctgacgga cggctctatgc 360
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 cctagcagtc atgtgtcttc gcgtcttgca c 451

<210> 38515
 <211> 318
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-021-Q1-K1-F7

<400> 38515
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 cccgcgcagg tcaggagcat agctttgggg acggacgaag catgcaccaa gttcaagaag 120
 gtggtctccc tgctcagcaa tggaggagag ggaacaggag aagccggacc atcaagcgca 180
 agcgcaagcg gaagccattc tagagctaag cttggtagcc gaagacagaa tccaagggtc 240
 ttggactaaa aagggtttct ggacaggaac aaccgggtcg tggggcttga caagggcggc 300
 cattcttctt cttccttc 318

<210> 38516
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-021-Q1-K1-F8

<400> 38516
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 aacatgtgca gtccggagag cacatggctg ctatgggagt cttcttcctt ttgcaggttt 180
 tcttcttctt ggactgggta aaatacctaa acgatgccag actgttcaag tcattccttc 240
 ggattaccct tacatgtgtg attactgttg gcaccctggc tctcggtata ggtactgcat 300

ctggttacat ctctccttgg acaggacgat tttactccct gctagatcct acctatgcan 360
aggaccatat accaatcatc gcatctgttt ctgagcatca accaacagca tggatcatctt 420
tcatgtttga ctttcacatc ctccctttttc t 451

<210> 38517
<211> 473
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-021-Q1-K1-F9
<400> 38517

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tgagtatccc cggacagcag ggccttgact acgcagttcg tagtcacgac ccgtcttctc 120
cggcaagggtt ttgcccctca gccgcaggct ccttggtgat gtcgtcaaca tcattcttct 180
cgatgccctc caggaggaac agccgctggc agacacgggt gtgaccccggt gtgtacttct 240
cgtcgcagtt gtagcagagg cctttgcggc gccgctcctc ttgctccgcc tgggtgagtc 300
gcttgatctg gcagccctcg acggagatca tcgtgggtgc tgctgctcgg ggacctagcg 360
gcgccgacag aggcctgtgc ggggcccggt atatcggggc ggcgtactgc tcacgcggct 420
ggaattgcct ggccaggctc atggtggctg ccagggtactg tgggttctgg atg 473

<210> 38518
<211> 455
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-021-Q1-K1-G1
<400> 38518

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ggaggtcaat gacgaggatg acgaagagg tagcgaggag gatgaagatg atgacgagtg 120
atggagagct cgctcgagac aatggacggt gcttcatcca acaatggagc ggctacacaa 180
ggccccgtgg cgatcaaaaa aaaggagcct atatccatgt actagaatta ttcagtttca 240
ctccacatcg tgatgtttta tttttacttt tgtcgtgcta taacggatag cgctcctcgt 300
tggcgccact ggccgggtggt tctgcctctg gtctgggtgtg tttgtgtgtg gtcacacttg 360

ccagctagca gaggcgcctg cttgtaccta gattactggg tccattgtcg tcgtcatcgg 420
ctaacattgt cataatgtca agttgggtaa tgtta 455

<210> 38519
<211> 382
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-G10

<400> 38519

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agcttcattc cacttcact tggatcgatc gatcgcatat ggcggtagtg tgggtggtgg 120
catcgctcctg cttgtcctcc cgcgccgtcg ctgctgcgct gctttgcctg ctggtggctc 180
acggcagcga tggaaccagg cacaacagca acaatggcgg tggtagtggt agttccagca 240
gcagcaagag ccacaagcaa ggcggaaggg gacgagccca tgccgcgccg acgacaccgt 300
ctnctcttcc gtatccgtct cggcggtctg gcaacaacag cagcagcgac gacgggtggc 360
tgaacgcccg tgcgacatgg ta 382

<210> 38520
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G11

<400> 38520

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gtcggctgtg ccggttcgcg aggtagggcg caccgtcgat ggcggcggca ccggcggacg 120
ctaaggcgga ggccgccaag atggacctcc tcgaggacga tgacgagttc gaagagttcg 180
agatcgacca agaatgggat gaccaggaag aaggcaacga agccgtccag cagtgggagg 240
atgattggga tgacgatgac gtgaacgatg atttctcgct gcagcttaag gaagagctgg 300
acggaagcaa cggccagaag agctgaagtt ttatttctct actctatata aatgattttt 360
atatggcagc tacttttggg accgttgatg tgctctggat atgaaagctt ttggac 416

<210> 38521
<211> 465
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-G12

<400> 38521

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cgaggaggag tgctgaggtc gaaatggggg gaggagcggg tgaggtgggt aaggtcgtgg 120
attcggagga cggcgagggg gaggaggaag aggcagaggc cgcggcggcg gaggggtcga 180
gcaaggagac gccgatgctg ccaaggatgc cgggtgcgctg gctgctcgcc gagggcgacg 240
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cctctgatgg tgtgaaggcg tgggacatat taaaggaaaa atctttcaac atagaccttg 360
gtttaactga agttgaactg cctttgatgt ctgggttcct cttggtatcc acgatcatgg 420
aacatgatgc attcaaaaca tnnctgtat aatgatgtct tcaca 465

<210> 38522
<211> 459
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-G2

<400> 38522

cccacgcgtc cgctccctcc ctcccccgcg tcgcggaag acgacctcgc cgctccctgc 60
ctccgtctcc ccgccgcagg tgctggagat gcaggcgact gccgcctcct tcctcgcccc 120
cccactcccc cggcttcgcc gcattggcag ctggggagcg gatgcggcgg tgggtgcgtga 180
gggcgttata gcgctccctc tgcggtgcg ggggcccggg tgctccatta gcctctccat 240
cggcgccggc gccggcgctg gcgccgaagc tgaccacgag ttcagctacg agcatgttcc 300
ggtgttcctt agataccgaa tacgagatcc ctacaagctt cttggtgttg atcgtgatgc 360
atctgaagaa gagatccgag gtgcgaggaa tttccttatt caacagtatg ctgggcatga 420
accgagtga gaagctattg aaggtgctta tgagaagat 459

<210> 38523
 <211> 439
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-021-Q1-K1-F10

 <400> 38523

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 cggtttcgac agaaattaga tgtttgcagc agacaagttg ggcttaaata attgcagggc 180
 gtaatcctag gttctttcta gtagctcaca gtaccgacta ccgagttcaa tcattggcat 240
 gcagctgctg cagcagcaag tccaacatct gctaccaacc tgtacctgaa agagagccag 300
 gctctgggcg gcacgagtgg ttcggactcc gacagcgatt cgctgctgga catcgaaggt 360
 ggcccgctgcg agcagagcac gaaccacag gacgtgaaga ggatgcgacg gatggtgtcg 420
 aaccgtgagt ctgctcgac 439

<210> 38524
 <211> 451
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-021-Q1-K1-D7

 <400> 38524

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 ggccctcacg gatttgaaaa ggtgctggac ttattggaag atgcttgca gtcgctgctt 180
 gatagtatcg tcgaaacaa tgcaagcatt tctgggtgac atcgatgtaa atctccacat 240
 acagacatct attttcagac gcaccgaagg ctgtagcatc catgcacaac cggagtaatt 300
 tggttttctaa tgcaacattg atcatgtcgt cattaccag gtcttggtct ggtttgtata 360
 taccaccatc cttatactg gatatgtgat aagtgacaaa aaaactgctc atcatcactt 420
 ttttccactt aagataatca gaaacaatca g 451

<210> 38525
 <211> 293

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D9

<400> 38525

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 agttcgtgtt tggtcagcaa ctggacgata aggctaacca cgcttggtga tagatggaat 120
 ccaacagtcc cattttttgt tctgttctgt tctgtagtac atccgctaaa ctgtaaatcc 180
 tgggtttcat gtgttcgtct gtctttttat tcaataattg cttccttgaa ggccgtttat 240
 gttgtttgtg gaccaatatt gtgaaaaaag aaagaatgta tggaacctgt tgc 293

<210> 38526
 <211> 411
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E1

<400> 38526

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 atcggcatcc agggtttctc aatcggcagc gatggcgacc agggcggcgg cgaggttcct 120
 gcagcgcagg tttctgtctt ctggcggtaa ggtcctcagc gaggaggaga aggccgccga 180
 gaacgtgtac atcaagaaag tggaacaaga gaagctggag aagctcgcac gcaagggccc 240
 cagctcagga gagcaaccct cgtcaaccac aggctctgca gcaagtgatg tgaaggccga 300
 tgctgggcca acggagtcag catctgcaag tgtgtcgacg gacaagaaca ggaactatgc 360
 tgttctggca ggcgcagttg ctgccctggg tggcttgggt tggtatctat t 411

<210> 38527
 <211> 464
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E10

<400> 38527

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 acccgtcgag cccgtacaag gtacggctgc tgggtggagga ctacccttac gcgtcggacg 120

ggctggccat ctggcacgcc atcgagcagt gggtgacgga gtacctcgcc gtctactacc 180
ccaacgacgg cgtgctgcgg gcggacgtgg agctgcaggg gtggtggaag gaggcgcgcg 240
aggtcgggca cgccgacctc aaggacgcgc cctggtggcc caagatgcag acggtggccg 300
agctggtcaa ggcctgcacc accatcatct ggatcgcgtc agcgctccac gcggccgtca 360
acttcgggca gtaccgtac gccgggtacc ttccgaacct gccgtccgtc agccggaagc 420
cgatgccggc gccgggcagc gacgagtact ccgagctgga gcgc 464

<210> 38528

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E11

<400> 38528

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gcgtggagga cgatctggtt gccaccgact tcaccggtga cagcaggtcg agcatcttcg 120
acgccaaggc cgggattgcc ctgaacgacc acttcatcaa gctcgtctcg tggtagaca 180
acgagtgggg ctacagcaac cgcgtcgctc acctgatccg ccacatgttc aagaccagc 240
aggctagtag agagatagat ttctgcctcc ctatcgctggg tcgtcccaa tggcctttgg 300
tcgcagacca tgtttctgctc ttgtctatgc tgagaataaa tgtgaacggt gccctggac 360
gctggatcca tgctgggttt ggacacgctg tctttatgtg ttaacttat ctgctgccgt 420
cctgtaacga attcgcaagt ttt 443

<210> 38529

<211> 457

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-021-Q1-K1-E12

<400> 38529

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gctcgagttc accaaactaa atgggatagt tattcaaggg aacggcatta taaatggcag 120

agggcaacaa tgggtggacct actcagaccc agaggatgag gatgatgatg acacgtacca 180
 tgtagagttt caaagaatgc cacagattaa acctacagcg ttgaggtttt atggtagttt 240
 caacgttgta gtgtctggta tcaactattgt caacagctca cagtgccatc ttaagttcga 300
 caactgtcaa ggagtgatgg tccatgatgt gaccatatcc tncctgaga acagtctcaa 360
 cactgacgga atacacctgc agaactccaa agatgtcagc attcatcata caaccctggc 420
 ttgtggtgat gattgcatct ncatccagac aggatgc 457

<210> 38530

<211> 338

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E3

<400> 38530

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 ggtgcggaca aattgaatgc tgttcagttg gagtttgcca aagatcgtat tatcatggga 120
 accgagagga gatcaatgtt cataatctgat gaatcgagaa agcttactgc ctaccatgaa 180
 agtggacatg ctattgttgc actcaacacc cagggtgctc accccataca caaggcaact 240
 atccttcctc gtggatctgc ccttggaatg gtcacacaac ttccctcaca ggatgagacc 300
 tctattagca agaaacaact tcttgcacgt cttgatgt 338

<210> 38531

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E4

<400> 38531

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 tgggtgtgctt gaatcgtggc tgtggagatg tgtggaactc attgggttaa gtgtgcttta 120
 ttaataatgg tgatgctgat ggaactgatt ttgctcccg tggacggcct gattggttac 180
 tttgccctgt tgactgtttg agaacgtacc gccaggttt acttatactt actgcttttt 240
 gacggtactg tacatacagt tcgacaattt atttattggc agttcaattc 290

<210> 38532
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E5

<400> 38532

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tgatatgggt cttgcttctg cctactcgca tgagttgccg cgatatgggc ttgaagttgg 120
tctgaccaac tatgcagctg cctactgcac tggccttctg ttggctcgcc gtgtgctcaa 180
gatccgtggt ttggatcagg agtacgaggg caatgttgag gccactgggt aggaattctc 240
tgttgagcca gctgatgaga ggaggccttt ccgtgctctc ttggatgttg gccttatcag 300
gactacaaca gggaaccgtg tctttggtgc cctcaaggga gcattggatg gaggcctgga 360
tattcctcac aacgagaaaa agtttgcctg attcaagaag gacgacaagc aattggatgc 420
tgata 425

<210> 38533
<211> 458
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E6

<400> 38533

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ctggtctcat gaaccgtagc tcaaatacaa tcccttcacc aggaattagt aattttcaaa 120
gcggaaatat tcattatggt gttaatacaga acgctatggg agtttagctc aagccaccag 180
gtgttctaaa gaccgagagc actgactcac tgagttgtag ttatggctat attggtggtg 240
gcaccagtgt ggactctggc ttgttctctt ctcagtccaa aaatccacag tatggtctac 300
tgcagaatca aaatgatggt aacggcagct ggtcgcttcc acaagatttt gatagttttg 360
gaaattctct tgggcaaggc caccctggta ccacttcac taacttcag agttccgccc 420
ttgggaagtt gcctgaccaa agacgagggg gaaatcat 458

<210> 38534

<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E7

<400> 38534

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gagaatcttc tctggaattt ttctccctta aggcagactg tagccttata gtgtatgggt 120
ctcattcaaa gaagaggccc aacaatctga ttttgggtag aacgtatgac caccacatat 180
atgaccttgt tgaagtagga gttgagaact acaagtcaat ggaatcttat gtttatgata 240
agaagctagc accattactt ggatcgaagc ctttctttgc tttcataggg gaacactttg 300
agagtgtctga agagctgaaa catttgaaag aagtgtctgt tgatcttttc agaggagagg 360
tcgtagagaa tctgaacctt gctgggtgtg atcgatcta tgtgtgcacg gcaatctctc 420
ccactactgt ttacatgatg cact 444

<210> 38535
<211> 110
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-E8

<400> 38535

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gggaatgggt gaacaaaaag aaaaaactta aagcaaactg gggccttcga 110

<210> 38536
<211> 461
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-E9

<400> 38536

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gcgcctacta caggggtgca atgggaattt tgcttgtcta tgatgttact gatgagtcac 120
ctttcaataa tataagaaac tggattagga acatagagca acatgcttcc gacaatgtga 180

ataaaatddd ggtaggcaac aaagctgaca tggatgaaag caaacgggct gtgccaactt 240
caagagggca ggctcttgct gatgagtatg gcatcaaatt ttttgaaacg agtgccaaga 300
cgaacctgaa tgtggagcag gttttcttct ccatagcaag agatatcaag caaaggcttg 360
ctgaatctga ttcaaagcca gaggatcgca cgatcagtat caacagacct ganggtggtg 420
aggcttcagc gtcacaaaaa tcagcttgct gcggatcgtg a 461

<210> 38537
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-F1

<400> 38537

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tgatcactca tatgtatcac ggaagcatga ggaggataag gtgatcatct ttgagagagg 180
agatttggtc ttcgtgttca acttccactg gagcaatagc tattttgact atcgcgttgg 240
ttgtttcaag cctgggaagt acaagattgt tttagattct gacgatggcc ttttcgggtg 300
atttagtcgg cttgatcatg acgctgagta cttcactgct gactggccgc atgacaacag 360
gccgtgttct ttctcgggtc atgcacccag cagaacagcc gtcgtatatg cacctgcatg 420
tgcagaggac gaatagggca 440

<210> 38538
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-D6

<400> 38538

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ctgatgtgct cctactgcaa acatcatact gagtctgaag ttccagatcc ttattatgga 120
ggccctcagg gatttgaaaa ggtgctggac ttattggaag atgcttgcca gtcgctgctt 180

gatagtatcg tcgcaaacaa tgcaagcatt tctgggtgac atcgatgtaa atctccacat 240
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tggttttctaa tgcaacattg atcatgtcgt cattacccag gtcttggtct ggtttgtata 360
taccaccatc cttatacctg gttatgtgat aagtgacaaa naaactgctc atcatcactt 420
tnttccacta aagataatca gaaacaatca gaatgaccg 459

<210> 38539
<211> 471
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-C10

<400> 38539
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ttgtccccta tcagtgatg acaaatatga aaaggcatgc tgattttatg gttgcagaaa 180
caaaaaaaga ggcactgatc gttaagacga caatacatga tatcatgaac caaatgattc 240
gggaacttcc aataaccaat ccagtatacc tcatgctaag cacatcattt ggttcctcag 300
ctaaaggaac cgggcttaaa gctcttgaat ttgccctctn catctgtgac agtgttgata 360
tgtatggctt caccgtagac ccaggttaca aggaatggac aagg tacttc tcagaggtaa 420
gaaagggaca cacttcacta catggtagag catattatca gatgatggaa t 471

<210> 38540
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C11

<400> 38540
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aatgggagga taggagcatt gaggttcgag aaggatcatg ggcatacatt ggtagtacia 120
gctctgggtg ttatgctcct ggtaacttca gtttgggcaa taattggctt tcttggagat 180
caccattatt atgataatgg gggctttttg gtccccctat tgggccaaaa 230

<210> 38541
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C12

<400> 38541

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ctggcgggca tgttggttatt gcatcactaa gcaggaagtt ccccttttcat gtctataaag 120
aaagtgtgca agttctattc ttcactgtta tttttgctac atttactgaa atatgacatt 180
cgttcatatg atctactggg aattcttcga cctttcaatt tcacaaaact tgcaactatt 240
tttatgctct gcacccacc aaaagtatac attgtctttc tactacttag acctaagtat 300
gagcaagtct gttgcatttc tattctttct actacttata catgcactgc attatgtatt 360
taacttttaa gaagatcaag caagtgcctg gtaatcaaag cacttgtttt tgatagagac 420
atgcattctt tttccttaaa ttgattttta ag 452

<210> 38542
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C3

<400> 38542

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gtaggtttct aatcctcgag ggccgcccc acaaaaccga gctcccaccc gcttctcttt 120
ccgccatcca agaggcccca cccctgatac cacgcttacg gactgaatt aggagattaa 180
ccatcgccaa gcgaacttac ggccgcactt cttgcaaacg ctcttgacgc ccatcta 237

<210> 38543
<211> 457
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-C4

<400> 38543

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gtaacatcgg catgctgcgg gcgctggtcc tggcgctcgc ggtggccgcc gccgccgccg 120

ccgagaagag gaggacgtac atcgccaca tggccaagtc ggcgatgccg gccgagtacg 180

cggaccacgc cgagtggtag ggcgcatcgc tgcgctccgt gtccgcctca gcctccgccg 240

ccaagatgct ctacgcgtac gacaccgtcc tgcacggttt ctccgcgcgc ctacgccgcg 300

aggaggccag cgacctggcg tccgccgagg ggggtgctgc cgtcaaccgc gaggcgcggt 360

acgagctgca caccacgcgg acgcccagat tccctgggcat cgcgcgccag ggactgtccc 420

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<210> 38544

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C5

<400> 38544

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gagggcagcc agcccgcggc ctccgaggga tccgccgacg ccgccctgcc ggctgccgcg 120

ggcgccaagg ccgcggaggc gctgctcccc tcgctcagta tctggccgcc gtcgcagcgc 180

acgcgcgacg ccgtgggtgc ccgcctcgtg cagacgctcg cggcgcccag cgtcctctcc 240

cagcgtacg gtgccgtccc ggagcccag gccgagcgcg ccgccgtggc cgtcgaggc 299

<210> 38545

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C6

<400> 38545

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aacccgccgg cgcacggcgg cgtgcaccag cccaccttca agatcttctg caaggccgac 120

gaggggtact gcctcacgt ccgcgacggc aacgtgggtg tggccccgc caacccgcgc 180

gacgagcacc agcactggta caaggacatg cgcttcagca cccaggtcaa ggacgaggag 240
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 ggccagtccc acccggtgaa gctggtgccg ttcaaccgg agtaccagga cgagtcggtg 360
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<210> 38546
 <211> 334
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C7

<400> 38546

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 cgattatggt tgtgaagaac aatattgaag agatacaagg aaaagacagc tatccatgga 180
 gccacaact gctgattttc aatggaaagg tcttgaaaga tgaaagtaca ttgcaagaga 240
 ataaagtcaa tgacgatggc tttctagctg tcatgcttag taacgataaa acatctgggt 300
 caactggaac tttatattcc cagcactcat acac 334

<210> 38547
 <211> 349
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C9

<400> 38547

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 tgcaacggtc atggcgacgt cgtctcgtcg ggtgcccttg ctgctgctgt gcctgggcgt 180
 gctggtgtcc tgctccttcg cggcgggcag cttgcaccag gagctggaca tcacgtgggg 240
 cgacgggcgg ggcaagggtc ttgacaacgg gcggatgctg acgctgtcgc tggaccgcac 300
 gtccggctcc gggttccagt tcacgcacga gtacatgtc ggcatgatc 349

<210> 38548
<211> 408
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-D1

<400> 38548

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gactgtcccc gcccccgcta ggcgccatga agctgacggt gaagaccctc aagggaacgc 120
acttcgagat cggggtgcag cccaacgaca cgattatggc tgtgaagaag aatattgaag 180
agatacaagg aaaagacagc tatccatggg gccacaact gctgattttc aatggaaagg 240
tcttgaaaga tgaaagtaca ttggaagaga ataaagtcaa tgaagatggg tttctaggtg 300
gcatgcttaa taagggtaaa acatctggtt caactggaac ttcattctcc cagcactcaa 360
acactcctgc aacaaggcaa gcacctnctc tagaggcccc acaacaag 408

<210> 38549
<211> 390
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D10

<400> 38549

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gcctggtggt gggcggggccc gatggagtgg gcgtcgggcg cgtacacggc cgcggcgtg 120
gtgtgcgcgg cggcggcggtg cgtggtagcg ctgcgcgaca tctaccgcca cctcctccac 180
tacgccgagc caatctacca gcggttcatc gtccgcatca tattcatggt cccgtatat 240
gctgtgatgt cattcctttc ccttatcctc cctaacaacg cgatatactt taattctatt 300
cgggagatth atgatgcttg ggtcatctac aattttctct cactctgctt ggcatgggtg 360
ggaagtcttg gtgctgtggt ggtaagtttg 390

<210> 38550
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D11

<400> 38550

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aagctgccgg agaagccgtc ctccaaggct ctcaagaagg cgctcctggg cgcgctgagg 120
tgctgtggatc ccgactcgca gaaacggccc aagatggggc acgtaatcca catgctcgaa 180
gtcgacgact tcccgatatc agaggaccgt cgaactcttc ggccggggcaa cggcagcccc 240
ctggagaagg cgaggaatcc ggcgggcggg tcatgcgacg gcagcagctg ctacgggggc 300
gacacgacca ccgcgagcac gccgtccaga ctagtgcagg acatgtagta gtgatgtgtt 360
tgtagccagc tgctgctggc cttctgagct ctgcctgcgg gctgcggagc aacatggaga 420
tggacatgct gcaactctgc tccgtc 446

<210> 38551

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D12

<400> 38551

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gaaacataac ttatgacatc agcgacctc ataacttcat tgatggccta gccgacatta 120
gtgcgctggg ttatgatcac tcgattcagg cattcctgcc atatgatcga cagtggataa 180
agcaaaagtt gtttcaacac ctgaagaaat tggtcagcg gtagcacaac tgttgtttgt 240
tctgatgcct tttatccaac aagcaagcat gcgtgacaat aggtgtccaa tcagtgggat 300
tgggagtgtt ttcttgtaaa ctttgtaatg ttacatggca gatttgctcc cttgtattct 360
ggatgtttga ctcggttttc attggtggct tgcttgtggg tgtggtatgc taaacttggt 420
ttgtttcgca gtgctgggaa tcagataacc ctt 453

<210> 38552

<211> 430

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-021-Q1-K1-D2

<400> 38552

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cctggatcat acactggaaa cgatgaaaga aaactatgta gctccggtga taatcaggaa 180
aacatttaac caagtatttg cataacttgaa tgtgcaactc ttcaacagct tgctgcttcg 240
tcgggaatgc tgctctttta gcaatgggga gttcttaaag gctggtttac aagacctgga 300
gcagtgggtgc tctaggacaa ctgaagagta tgtatggaca tcctgngatg aactgcaaca 360
cattangcaa gcagttcggg tcctgggtttt gcatcagaaa tcacacaaaa tcctggaggg 420
aaatacgaat 430

<210> 38553

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D3

<400> 38553

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gagtcaaaca taaatgagca tagttctgag gaagatatcc ggagcgtgcc aaattctgta 180
catcacaaca atgagataga gtctgattct ccacctcacg tctgtgagat agaaagtgtg 240
aaaagcaacc aagaagggtg ccaatcttcg gatggctcgt ctttcccca gacaagatct 300
gagcgaagca ttgaccaatg ggtatttgca aagtcaaaat ctgaagaaag catggatcag 360
tggctctgaa taccttcaga tgtggaatcc ttcagagaag gtaaaaggta cctcagtagc 420
gaggagctga gtga 434

<210> 38554

<211> 190

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D4

<400> 38554

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ttagcatcta tactatggga acggtaaaat tcttacttgg ctcaatacat attatggtag 120

atacacttta ggtaactcaa ttcaaaattc aattaccata catctaaaca ataattcctg 180

agcataccaa 190

<210> 38555

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-C1

<400> 38555

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ggagctcccc gccgattctc tctccgcctt ccgagaggcc cgaccctga taccacgctg 120

agggcggtgg tattaggaga ttaccgatgg caaggtggcg gccgtcggcg ctgctggtag 180

tggctctggc ggcggttcta tcggcggcgt ggcgggcgga tgcgctatcg gatacggaga 240

ccgacaccga gtgcatccac gagttcgtgc cctatgaggg caacac 286

<210> 38556

<211> 425

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-021-Q1-K1-D5

<400> 38556

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gggcgcgat gggggcgcgg aggaggctgc tggcggacac gccgccggag catcgccata 120

ggcagggcgc gccggcgctc gactggagcg cggggtacct taacgggtgg ctgtcgcagc 180

cgacgccgat cttcggccta cgctctcggg ttctcgtcgg catcgccgtc ggcgccgcca 240

tcgagctcgt gtcctgctc atcttcgtct gcctctccca ccgccgtcga cgcgcggcg 300

gtgacctgct cgccgccaac ctctaccccg ccgccgacac caagctgctc aagcagcacc 360

tncagcacca ggccacgccc accaaggaca tccaggagat tgttcgtcgc cagcaggcgg 420

agacg

425

<210> 38557

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A2

<400> 38557

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ctccatgagg cagcgggtca cgtggtgacg gtggagctca agaccggcga agtgtaccgg 120
gggtccatgg tcgagtgcga ggataactgg aattgccagc tcgagaacat taccttcacc 180
gccaaggatg ggaaggtttc gcagctggag cacgtcttca tcagaggaag cagagtgaga 240
attaatgata tacctgatat gctcaagaac gctcccatgt tcaagcgctt g 291

<210> 38558

<211> 458

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A3

<400> 38558

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gcagctgctt tatgggacaa tggtttttgt tcgccagaca atagtcgcag atgcttctaa 120
ggctttgtcc cgtgctgttt gcattgctgt acgatacagc gccatccgaa agcagtttgg 180
ctctcaagat ggtggacctg agactaagggt ccttgattac aagactcaac aaagcagact 240
ctttccgttg ctggcttcag catatgcatt tagattttgtg ggtgactggc tgaagtggct 300
atacatggat gtcactcaga aactggaagc taaagactac tcaacactgc aagaagccca 360
tgccgtgact gctggtttga aggcgtgtgac aacatctgca acagctgatg ccattgaaga 420
atgtagaaag ctctgtggcg gacatggtta cctgaaca 458

<210> 38559

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A4

<400> 38559

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gctgctctag ctctagcctc tagccctagc tagtagctag ccactcggtc gtgtagtcat 120
cagccttctg atcgtcaccc atggccactg ccgaggtcca gaccccgacc gtcgtggcga 180
ccgaggaagc gccggtggtg gagaccccg gctccgccgc cgtcgtgccc gaggaggctg 240
cccccgccgc cgaggccaag gtggaggagc cagctgcccc ggccgagacc gagccagctg 300
ccgccgctga gcccgaggcg gccccctgg cgccggagga agagacgcca aaggaggaag 360
agacggcaaa ggaggcgag ccggagccgg agccggcggc ggctgaagag gtgaaggagg 420
aagcggcagc gcccgctgcc gagacagaag cag 453

<210> 38560

<211> 257

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A6

<400> 38560

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ctaattttaa aaattgaagt gatataataa aaaatataaa ataacattat acaaaaaaat 120
agtgcactcc attttaatat tccaagctat cgtcccctag cttactacac ataacatcat 180
ctatTTTTTA acctaatttt atttaacttg ctcattattc ataacattat gatttgcaaa 240
aatcattatt tacctaa 257

<210> 38561

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-021-Q1-K1-A7

<400> 38561

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gcagggcctg gcccggtcac tctcgggtggg gagggacagg gacagggaca gggaccggaa 120
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 cctgtggggc gacggctcgg acacgttcgc cgccgtctgc tcgcggcgcg gcgagaaagg 240
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 ctgcggcatac ttcgacggcc acngcccg gggccactac gtggccaagg tggcgcgca 360
 ctcgctgccg ccgtcgctgc tgtgccactg gcaggaggcg ctgcgctcg cgtcgctcat 420
 cgacgacggc aagaaaaagc tcggcgact 449

<210> 38562

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A8

<400> 38562

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 tcagggcctg gccggggcac ggtcgggtggg gagggacagg gacagggaca gggaccggaa 120
 agggaaacggc gcagggcgacc gcaagaccgc cgtgccggcg gtgctgcgga cgtcgggcac 180
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 ctgcggcatac ttcgacggcc acggcccggtg gggccactac gtggccaagg tggcgcgca 360
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 cgacga 426

<210> 38563

<211> 333

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B1

<400> 38563

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 aaaaaaaaaa aaaaaaaaag aaaagctaaa aatcaaaaaa cgccatctct caacaacaac 120

aaaaacataa acatatcaca caaacaacca acgcaccccc tcacccaaac ccttccatcc 180
 caccatcatca acccacctac tccttccaaa aaatgcaccc actaaacca tctcactccc 240
 catcacttca cactctctat aaacccaaaa accaacagtt acccaaacac cataaatcac 300
 tacaccttcc cttacttccc actttctaca taa 333

<210> 38564
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-021-Q1-K1-B11

 <400> 38564

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 aaaaaaaaaa aaaaaaaaaa aaaaaataa ataacaacta aaaacaaaaa taatggtaca 180
 atgacaactg catatgaaat tacttaaaca cataatatct gatgactgac cctcagccaa 240
 tgactgaaaa tttggcaagg ctaacacctt taacatcatt cctaacaaca ccggtgctaa 300
 caaagctttt ggaaaagtgc ttctaatact gaatggcccg ctactggca tgttctaaaa 360
 aattcctact gtggatgtct aaattgaaca cctcactttc agaat 405

<210> 38565
 <211> 85
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-021-Q1-K1-B12

 <400> 38565

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 ggaaaactaa aacacataaa aatga 85

<210> 38566
 <211> 425
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-021-Q1-K1-B2

<400> 38566

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ggaaaatggg gaagacgccg gtgcggatga aggcgggtgg gtacgcgctg tcgcccttcc 180
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ccatgtggta caaagagcag gagaagcttt cccacagata ctaaattgga tgtcctccaa 360
gttgctgagg cttgtcgcag ttgaattttc catgatgggt tgtataatct gtcaatgtca 420
tttct 425

<210> 38567

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B3

<400> 38567

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taaaagggtg ccgggaaggt atcttcacag cgaccttctt cgtcctgggc cgcaagccta 180
tcaaggaagc tgatatggtg aacggcggcg tcctttgagc tgcaacatta gtatgggggt 240
gtactcataa gagctatgaa tcatggccaa cgtgttctga gctgatgtgt gattactggg 300
ttgtcttatg ggtactgggt tatgaatcat gttcccgcat tagccctgat ctgaatgtgt 360
gctgtgtact atgcgctatc tgaataa 387

<210> 38568

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B4

<400> 38568

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 aaaaaataa aaaaaaaaaa acttaaaaaa actaaaacaa aaaacctatc aaagaaactg 180
 atataagaaa acgaaggcaa actttgaagc atggaacatt agtatgggat tgaactcata 240
 agagctatga atcatggcca acgtattctg tgcttaagtg tgtttactgg gttgtcttat 300
 tcgttatggg ttatcaatca tgttaccaaa ctaaccacta tctcaatatg tgctgtgtac 360
 tatgcactat ctgaataaaa atgcagaatt actcctaaaa aaaagagtcc tctaacaatg 420
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<210> 38569

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B5

<400> 38569

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 ggatcaagag aagcacttgg tacagaaaac ctatcgaggc aaacgcggca aagatcaagc 180
 acggcacagc aagagacacc accgtgcgtg acgggtgaagc cgccacggcc tctagctcga 240
 tagagtgcag taaccgggca gaggaagacc aagggtcgtc gagccttctt aacctgaacg 300
 cattcgacat cattttcttc tcgactgggt ttgacctatc taaccttgtc gaagaaagac 360
 acgggcgga gg 372

<210> 38570

<211> 342

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-021-Q1-K1-B6

<400> 38570

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atactcttat cgaggaccct gtcagtctct ctggccagct cgtcgacagc ttctcggaga 180
 ggatatatag canaaagcgg acttccatgc cttctggttt ctgcatggat ctgtggcatt 240
 aaggaactgc agggctcttac cgttcgcttt gtagggagca tattcggccc attcttttgt 300
 tgcagatcgt tgcattgatt cttcattgga aatttagctg aa 342

<210> 38571
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B7

<400> 38571

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 cttgtggacg aagacaatct tgtaccctt tattgacgcg gcaaggatcg tgttgaccca 180
 aaggcaaatg acatgcccga cggtgacatt ccttaa 216

<210> 38572
 <211> 346
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A12

<400> 38572

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 ttgaacgata acagccatct ggttctcaaa gaggatgacg ttataggtat cttagaaact 120
 gatgacgtga aagacatgaa gcctctgaac gaccgtgttc taatcaagggt tgcgtgaagct 180
 gaagacaaaa ctccaggagg cctactgctt acggaaactg ccaaggagaa gccatctatc 240
 ggaacggctg tagcggttgg cccaggcccc ctggacgagg acggcgagag gctcgcgctg 300
 tccgtctccg cggggagcac tgtcctgtac tccaagtacg ccggca 346

<210> 38573
 <211> 374
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-B9

<400> 38573

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ttatctgtag tcaggtccaa ttcttttctg ttggtgagcg caagttattc atagatgact 180
cggtcacggg aatatttgta atattatgtc atgtatcgtt aaatttcagt tgttttggtt 240
cagctgccag aactgttagc aagagtattc tggagctgga agctcgaacg caactgggtg 300
tatctatatc cgtgaatgcc gaataaagga ggggcaataa actgcagcga aatatgtgct 360
gtcagacatt gttg 374

<210> 38574

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-G4

<400> 38574

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tggagttggt tgaaggaggt gcttgtccac aagagcaca ctgctggctt caggaacagg 120
atggggcaca acagggcacg aggggaacaa gaggacgggt acaggcacg ccgtaggaggt 180
catcaagggt ggcgagacag tgacacaaat gacagaccaa agaggaggag gtactgacct 240
actgcactca cagcttgacc ggctaataa gacgacgtc 279

<210> 38575

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-G5

<400> 38575

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cggagggaaa gattgtgagc aaggtctact tgtgtgagaa actgtctctc actaatgaga 120
tgtattttgc cattaccctt gataggaaaa ctgctggctc gctcattatt gcttgacga 180

agggaggaac cagtattgaa gatcttgagg agaagtatcc tgatatgatt atcaagggttc 240
ctgttgatgt atttaaagga ataacagacg aggatgcagc taaagttggt gatggtctag 300
ctctaaagtc agcggatagg cagtcttcta tagaacagat taagaaactg tatgaacttt 360
tctgcaagtc tgattgcaca tt 382

<210> 38576

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-G6

<400> 38576

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tacctcgtgg caatttcgtc ccttcctctc ttggattctt ccatggagga gcaagggtgag 120
cgacacatcc agcttcagct actgctcctc cctgcgcctg cagggtcatca tcaagtcctg 180
cgtgacgtac cggcggcggt gccagccagc gccgtggagc ccccccagct ggaccttgat 240
ctgaccatga acattggggc caggccggat tcaacggggc aaacac 286

<210> 38577

<211> 298

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-G7

<400> 38577

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gttacattac accttaactt tcacttcaga agaagaaagc cgaaccggat tcccagaagc 120
cttgctcctt ggggtcttct tccgtggggc gttggggcgc cggccggggg tggtggggcca 180
aaaccgaat gatttctggg aacatgtgtt caccgggggt gaccgcaatg gggcctttgt 240
ccgtggccat gttcctgggg tacgggtcgg tccggtgggg gggcatttta acggggga 298

<210> 38578

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-G9

<400> 38578

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acttcatgac ataagtgatg agccaggctg ctcaatgcc ttcagctttg acttcgagca 120
gcatgcattg tctgaagaac aaatgaagga tcttatctac caagaggctc ttgcattcaa 180
ccctgattat cagtagccaa agttcaattt cagccggtga ttggcttcat tgacatggag 240
atTTTTTccc cacctgatgt cagtgcacaaa agtcaccaac tccgattgct agctgtaaat 300
aactgcctta cctgaagata ctccattcct ctgattaaaa gctggtgacg gtgtcattaa 360
gggtagaaaa gaacgagctt gtgaaagtca aatttctgcg aagccatgga tttctgtgct 420
tacaaatat 429

<210> 38579

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-H1

<400> 38579

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ccatactctg atatgtgtgc tgctgaaatt attggggcca ttgtaaacga ttcctatgc 120
cctcaaatec cttcatggcg tgatcctgag tggaagggat tgatggaaag ctgttgggtcc 180
agtgatccag ccgagagacc gtccttcaact gatatatctc aaagggttag gaaaatggcc 240
gttgcaatga atgtgaagtg aagggttcgga agccatattt gtcttgattt tcttagtccc 300
agctgtcatt tgccttgtgt cgaaaataac tatgctactg gtgctggggg tgcatttcac 360
cataccattg tacaagaagg tgggtgtagc gacttagtac tacgatatgc tcaattt 417

<210> 38580

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-H11

<400> 38580

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 gtctttcttcg acatgaccgt cggcggcgcc cggcggggcc ggatcgtgat ggagctgtac 120
 gccaacgagg tgcccaagac cgcggagAAC ttccgcgcgc tgtgcacggg cgagaagggc 180
 gtgggcaagt ccgggaagcc gctccactac aagggtcca ccttgaccg cgtcatcccc 240
 gaggttcatgt gccagggcgg cgacttcacc cgcggcaacg gcaccggcgg cgagtccatc 300
 tactgcgaga agttccacga cgagaagttc gtgcgcaagc aactcgcgc cagtgtgttc 360
 tccatggcca acgccgggcc caacaccaac ggcttccagt 400

<210> 38581

<211> 391

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-020-Q1-K1-H2

<400> 38581

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 catcatcctc ggcgatagtg gggttgggaa gacttccttg atgaaccaat atgtgaacaa 180
 gaagttcagc gatcagtaca aggctacgat cggcgcggat ttctcacca aggaagtgca 240
 gttcgaggac aggtcttca ctctgcanat atgggacact gctggccagg aaaggtttca 300
 gagtctcggc gttgcattct accggggagc agatnngtgg ggcccagtct atgaaggcca 360
 ttctatgaaa tcatttgaca accttgacaa c 391

<210> 38582

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-H4

<400> 38582

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 aagctcgatg gatgcgtgtg atgattatat aaaggacatt ataaatcaat gggagcaaag 120
 gaaaggaaag gaaaggaaag ggagaaaatt tcatatagca attgtttcgc gtataggagg 180

gagaacaaag gtcgctctc gaaagttctt gccttggttg gaagggatgg cgtcggaggt 240
 ggaggacgac gcggcggtgc cgggcgcgcc gctggtcgcc aatgggtgcag ccgacgtccg 300
 ccggaggaag gatcaggcga aagcgatctt 329

<210> 38583
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-020-Q1-K1-H5
 <400> 38583

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 tcgccagttg cagtgcgct caatgacgac agagctgcag ttcaatgcat tgcggaacaa 120
 agatttgtcc gtgaagtgc tatacagtac aatctgtgca atgagccatg gttgaaatat 180
 agtataaaca ttgtggcaga taagggattg aaaaagtctc tttatacttc tgctagactg 240
 aagaaaggag aagtcataata tttagaaaca cacattaata gtttaaacag gtatgagctt 300
 tgcttttagtg gagacaagcc ttgcattatt ggatcaagct gcaatgcac tgaatcagaa 360
 cagagaaaca ccatagcggg agtcaccatt ctcagaatgg tga 403

<210> 38584
 <211> 389
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-020-Q1-K1-H7
 <400> 38584

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 ggcagcgtcg tcgtcgtgtg aggtcaagca aagaacccat tgagatgaat ctcaaccaca 120
 tagaccactc aaatcttcag cttgataata ctagtgcact tggaggttta aaaccaaaca 180
 agttacctca ttggcttcag gaggtgttac gtgctccttc atctaagcca cctgaacgtg 240
 agctaccagc aacagtttcg gcaattgctc aatcgggtgtg ccttcttctt ggagaacaag 300
 aaccatcaat acctncattc ttgatcccg gaaccctctt ttcttgccca aaagatccaa 360

tgattaattc aaaagagaaa cttcgcaag

389

<210> 38585

<211> 74

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-H8

<400> 38585

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tggcaccggc atgc 74

<210> 38586

<211> 408

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-H9

<400> 38586

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ggcgccacca accaagctca tacatctgaa ttgactagtc caactcaggg atttctttgg 120

ggaccaatca aactcaagaa ctaagtttca tgtctgatct cgacgtccag cttocatctg 180

cttttgatcc gtttgcagag gcaaattgctg aggactccag tgctggtgct ggatcaaagg 240

actatgtgca cgtgcgtatt cagcagcgca acggaaggaa gagtctgaca actgttcaag 300

gcttgaagaa agagtacagc tacaacaaga tcctcaagga tctcaaaaaa gagttctgct 360

gcaatggtac tgtagtccag gatccagagc taggccaggt cattcaac 408

<210> 38587

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-021-Q1-K1-A1

<400> 38587

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aggaggacga cgctgcagag ccagctgagc aagtttgagg acgaggacag cgagaaggca 120

agagcagccg cggatgcat gagtcctgtg caagatggat tgttgataag aaaaccgcca 180
gacatgaggt ttccatcaag aagaaatgtg cctatgtctg ctgatccagt gggccatctc 240
cacaatggca gcagtttcga tgccgtctca gtgtcgggtt cagatggaag ttctgggcca 300
tataccccca aaattagcgc aagcacacac aactcatttc ttcaggatag tagcaatgct 360
ctctcgccat ttgccaacaa tcgcaccgtg aggaacccat tgaccagttc tggtagactgg 420
tcangaagct cagctcctga tgctagtacg gatgg 455

<210> 38588
<211> 297
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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gccatgcatg aattccagtc caacaatacc ggaagctatc tggatgtctt caagtcgaaa 120
gaattgaggc tagctttctt tgctggggct ggtcttcagg ccttccagca atttaccggg 180
atcaacaccg tgatgtatta cagccccacg atagtcagca tggctgggtt ctctccaac 240
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<210> 38589
<211> 322
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-G3

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ggagtccctc gccgaggcca cgtncgctt gcgcaagaac ctggcctact tccggtcaa 180
ctacgccgnc gtggccgcgc tgtgcctcgc cgcggcgtc ctgggcgacc ctttctcct 240
ggccgcgtg ctggcgtgc tcgccactg gtgcctctc tacgtgctc agcccgncga 300

cgcgcccccc gtctccgcgt tc

322

<210> 38590

<211> 485

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-021-Q1-K1-A11

<400> 38590

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ggaaaccata aagagaacct acagccaagt tctatcacc tgatggccca gaactcatgt 120

tttgctaagt cttctccacc taagtctca aaaatttgaa caaggccata ttatcagata 180

aaagcagatg tagctttcat aggacttagt tccagcaaag caaagggttg cattgcacca 240

aacaatagcg tctatacttc attcttatgg cttggagaag cctatgcaac atgacaagcc 300

agatgacatg tagatgagaa gggtctgcat caagagaaac caaagcaaaa tctttgcatc 360

aagagagcac cgatgaaaag ctgatgtaga ggccagttga caaacttatg gaagaccagc 420

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<210> 38591

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F1

<400> 38591

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aaacaatcaa atcctgatag tgatggagaa gagaaaggga agcctgaccc gtatggtgca 120

cctgtgtcct cttcagggag caaaaagaga aaggcatcct cttctaagaa aacaaaaaat 180

aaaagtgttg cagagagttg cttgcctgaa aaacctcttg cgaaagttgc ttggtttagg 240

gttattcttg atgaagcaca aagcattaag aactaccgaa ctcaggttgc cagggcttgc 300

tgggggttgc gagccaaaag aagatggtgt ttgtctggga cacctataca gaatgctgtt 360

gaggatctct atagctactt cagatttctc agataacaatc cttacgctgt atataagcag 420
 ttttgcactc tga 433

<210> 38592
 <211> 424
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-020-Q1-K1-F10
 <400> 38592

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 gcctgctggca gctgcccgcac cccaacgccc ccggtcgagc caccgcgcgc gcctcctgct 180
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 tgtacctca tcaaaggcct tgcggacttc gaggccgncg tctgcctctg caccggccatc 360
 aaggccaacg tgctcggcgt cgtcatcgat gtcccatca agctcagcgc cctcgtcaac 420
 tact 424

<210> 38593
 <211> 79
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-020-Q1-K1-F11
 <400> 38593

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 acaggatcaa ataacgcac 79

<210> 38594
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-020-Q1-K1-F12
 <400> 38594

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 catccccgac tgggtgttacg tagtggcctg cggaacccaa gcgaagcgat acgcctctga 180
 agcgcttcg cccgaccatc ttctgtctct ctaccagaga tcgccgatcg cccatgtctc 240
 taaagtcaaa gcgccccctt ttatgtctct tggcggagct gaccttcgag tgctgtctc 300
 taatggccta cagtacgcaa ggagcctaata agaaagagga ggcgatgtca aaatcatgat 360
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<210> 38595

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F2

<400> 38595

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 ggggacgcca tacatcaaag atgactaaag aagaggaaga tgaagaatac ctccaagagg 180
 aagaagatgc ccttgcctgg gcagggggga acacatttag tttcacaacc ttcattgctc 240
 taaccctct gatcctgggg cgtggcagat tagactccga tggggaagtc actagcgagg 300
 tggatcaagt tcgtgctctt caggaagaag tcgtca 336

<210> 38596

<211> 468

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F3

<400> 38596

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 cgaatagctc tcttccctct gcaaatatac aaccgtgttt caaacttctc ctcttcaggc 180
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aagaatttgt cagattcata accttggagt tccctatggt ggattgcacg acccccaagg 300
atggcatcaa gttcaactgt cttgattgct gcagtcccag cttcatcctg caatacaaac 360
agtcacaagg aaggctagaa ctagtacaca taataaaaca gaatttaagt tcacaagtgt 420
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<210> 38597

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F5

<400> 38597

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caagtttctt ccatggtaac cttccaagta caggatggta gggtgacatg tgataggtgc 180
aagattgcgt ctttgtcaat accattttgc tccatgctta atggaccgtt caatgagtca 240
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tctgagttta gttctacatg tagtttaggg gatcttcctg tggaaatctt attggagatc 360
ctgggtgtttg caaacacatt ttgttgtgac aggcataaaag atgcttgtga taggaaactg 420
gcttcatttg tttcaacaag gcaagatgc 449

<210> 38598

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F6

<400> 38598

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gccgacatgg agcgtggccg cagcagcacc tcttcctctt gccggtcctt gctgctcctc 180
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aatggcgcca cggcggcagc tgccgacgac ggcctcgtga tgactgaaga aagtgacgct 360
gacgccacga g 371

<210> 38599
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F7

<400> 38599

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cagatagtgc tattctcgtc ctgaactgca gtggcattgt tcttggaaacg cttcctgtta 180
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tggttaaagt ccagtctagt aggaggcgca gagaccgctc tgtattgtcg ctgggaagat 420
cta 423

<210> 38600
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-F8

<400> 38600

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tattagttaa ggtagaagag ctgaaccata caaacaacac acttgcaagc ctataggaga 180
tcaataggaa ggcagccgga ggtagacca ttctagcata cgaaaagaag ttccagtatt 240
acaagaatgg tatgcaacta agatatgcac 270

<210> 38601
<211> 401

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-020-Q1-K1-F9

 <400> 38601

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 agccagcagc ccaggctcct actacagctc ctgttcgaga tgggtggtggc tccatgtttg 240
 gaggaattgg gtccaccatt gctcaaggta tggcggtttg cacgggtagt gccatggcac 300
 acagggctgt tgatgctgta ttagggcccc ggaccattca gcatgagact gttgcctcag 360
 aagctgctgc tgctgcccct gccctgcagt gatgaatgct g 401

<210> 38602
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-020-Q1-K1-G1

 <400> 38602

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 cacgaaggcg gcgacgatga cccagacgac ctcgccccca tggacaccca agagcaagaa 120
 gagctgggtcc ggtctctgga ggctaagcag gcgcagcaag gccgccgttg gaggcgcgtc 180
 ttcgcgggggt tctccttagg ttacgcggcc ttccttgtct actccagttt ccatcatgct 240
 tgggtctcct gggagctgcg gtaccatgct tacttcatgg aagatttgcc tgcaccaatg 300
 gtcataattg caggtttggt atttccttca actatttagt ttgagtttgc aaagttgtaa 360
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<210> 38603
 <211> 420
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-020-Q1-K1-G10

<400> 38603

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cgcaaggcag gcggccccag gaagaagtcg gtgacgcggt ccgtcaaggc cgggctgcag 180
ttccccgctg gccggatcgg gcgctacctg aagaagggcc ggtacgcgca gcgcgtgggc 240
actggcgccc ccgtctacct cgccgncgtc ctggagtacc tcgccgccga gggtctggag 300
ttggcagggg acgcggcgaa agacaacatg aagacgcgca tcatcccgcg ccacgtgctc 360
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<210> 38604

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-020-Q1-K1-G11

<400> 38604

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caaagccttt gtcagtggcg aaagcaggac agaaatttaa gtgggaccaa acaaaatcgc 180
aaagcaacta gacaagaccg tgaaactgat ctctggtgga tgtggacgca ctaaacadgg 240
aaatggctca ctatgagtgg cattntacca tgaaatagtg aaaaggataa tgagaaagaa 300
agcactcatg tcgaagtgtt tgagcagact agttgtggta actatatctc gtctagcaac 360
cataccagta aaatcatgaa atgttgatgg ctgataagaa ttgtggtgca cttttacaat 420
caat 424

<210> 38605

<211> 378

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-020-Q1-K1-G2

<400> 38605

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ggcacggtgc gaagttgtat gatggtagtg caatggagaa tttgatgaag agcgtggagg 180
ctattaggag attcaggaca tcacagtttg atctagttaa atctggagag aaggctgaag 240
gagatgttgt atcgggtgaat tttgctgacc tgaaggctgg cacacctaca ccaacgggtt 300
ttgtcatgaa tcttcaacca tctgaagcaa aggtaggtct tgacatccgg atccctncta 360
atgcccattgt ggaagcac 378

<210> 38606
<211> 290
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E9

<400> 38606

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aggggggatgg cgagcggcgg ggcggtgagg gatgtgggct cgcctgcgga gctggaggcg 180
gcggtggccg gggcgcgggc ggcggccgtg cacttctggg cgtcctggtg cgaggcgtcc 240
aagcagatgg acgaggtctt cgcgcacctc gccgtcgact tccccacgc 290

<210> 38607
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D12

<400> 38607

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acaccaatgc caagcttcta tactgaacca actgctgtca aggttgaatt gacaaagata 120
cccccaaaa gagccaaatc gccaaagatt ggccggtcta aaaacaagtc cacaccatat 180
actgacgaaa atgctaccgc agaccagact gccacactga acctcgatga gaatgttgct 240
caaaccggag tgaaaaaacc aaccccggtg aatccaccaa agaag 285

<210> 38608
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D3

<400> 38608

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 agctcctttg gaccctgcat cattctctga tgcaattgtc cagatttatac tggataatgg 180
 tggagatctg gaactcgtcg ccaaaagtat tgagtcttcc gacctcaact tctcacgtta 240
 cgggtgacacc ttttttgagg tggtttttgt tggaggacgc actcagcctg gcactgtaaa 300
 acctgaagaa ggagaccgtc acccttattc tatgttagat tgtgtggcac agcgtgaaac 360
 aattttgcct ttcgtactct atatccagaa aacattgcgc aggaagcctt tcttaataaa 420
 aa 422

<210> 38609
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D4

<400> 38609

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 cgccaatgcc agccccctcc gcgacgtcgc cgccgccgt gctggcgccc ggatcaccat 180
 gggcaacgac ctgtggtacg gcccgaccg cgtcaagtac cttggccct tctgccgcca 240
 gacgccctcg tacctgaccg gcgagttccc cggcgactac ggctgggaca ccgtcgggct 300
 gtccgcggac ccggaggcgt tcgcgcggaa cagggcgctg gaggtgatcc acgggcgggtg 360
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 ggact 425

<210> 38610
 <211> 451
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D6

<400> 38610

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ggcgtcggct ccgcgctgcg tcggctctac ctctccgtct acaactgggt cgtcttcttc 180
ggatgggcgc aggtgctgta ctacgcggtc ctgacgctgc gtttgagcgg gcacaaggcc 240
ggctatgccg ccgtcgagag gccggtgcag ttcgcgcaga cagccggcat catggagatc 300
gttcatgggc tcgtagggct ggtgaggtct ccggtctctg gaactcttgc acagattgga 360
tccaagttga tgcttacgtg ggggtgcttg tggagttttc ctgagacca gtcacacctt 420
cttggtacta ccctgggtcat aagctggtct a 451
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<210> 38611
 <211> 409
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D7

<400> 38611

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gccatgttgc tgactacatg aggaacctcg ctgaagagga gccagagaag taccagtctc 120
acttcagtga gtacattaag aagggaattg aggctgatga catggaagct ctgtacaaga 180
agggtccatgc tgccatccgt gctgacccct ctgtgggtcaa gtcaaccaag cagccaccaa 240
aggagcacia gaggtacaac cccaagaaac tgacatacga acagaggaag gccagtctca 300
ttgaaaggct caaccaactc aactcctcgg gcggcgcaga tgacgacgat gaggatgacg 360
agtaaagttt ggtcccatcg aagtagtgct atcttatgcg gcgatcagt 409
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<210> 38612
 <211> 357
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D8

<400> 38612

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gctcactttc cctatccatg gtggcaacga agcttaatct ttctggttca gatattgtag 120
atgatgaacc actgtctctc tctcttgggc tccctagtgt tgtcgggtggg agagcagatc 180
aggagatgaa gcaattcctg ccggagaagc caggcataaa cacttaatgc cccttttagat 240
ttgcgagtgt acagttttgt gcagctgtat tgagttttaga cagggttgaa gtatggtata 300
gctgataaat tatggatatt tttcatTTTT tttcaaaaaa aaaaactttt aaaaagg 357

<210> 38613

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-D9

<400> 38613

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atcattcgat ccattgggga tctgtgaacc atgtacctgt ttatgtaact tttttttttt 180
tcgaaagagc gcaggaggac tgcgcacca tatattaaag tagagggaaa ataaagggcc 240
ataatgatga tatccatcta tctatctatg taactggttt atgtaccatg tacctgttta 300
tgtaactggt taccagtgtt atccatct 328

<210> 38614

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E1

<400> 38614

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gatgagcaga tgctggttta tgaattcatg tcaaattggca ctttacgtga tcattcttct 180

gccaagtcca agagacctct aagttttggt ttgaggttga aaatcgcatg ggggtgctgca 240
aagggaattt tgtatctaca tactgaagca gatccaccta tattccaccg tgatgttaag 300
gccagcaaca ttctgttgga ctccaaattc gttgcaaagg tagccgattt tgggtctctcg 360
aggcttgctc cagtgccaga tgtcga 386

<210> 38615
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E10

<400> 38615

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gatgaaagtg gtagcaatat gtgccttaca gaatctagtc atgtacagcc gagcaaataa 120
gagagcaatt gcagaatccg gtgggtgttca ggtcctgctg gatcttatca gttcaagcaa 180
tcttgacact tctgttcggg ctgcaatgtt tgtcaaactt ctattcaata accatactat 240
ccaagagtat gcaaccagtg aaacagtcag agttataact gcttctattg aaaaagatat 300
atgggcttct ggaagtgtt ac 322

<210> 38616
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E11

<400> 38616

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aaccaactgc agggaggcgt gtgttagaac tatgtgccgt acataatcta gtcattgtaca 120
gccagcgagc attagagagc aattgcagaa tccggctctg tacagggtgct gctggatctg 180
atcagctcaa gcaatcctga cacttgtctt cggcctgcaa cgttcgcaa acttctattc 240
agtagccata ctatacacga gtatgcaacc agtgcaacag cctgagctat aactgctcct 300
attgaaaatg atttatggtc gtaccgaaag tactaacgag gagtatctca gagcactcaa 360
tgctctgctg aataacttcc gtcgtctgag ggtcactg 398

<210> 38617
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E2

<400> 38617

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gcccttctct tcgcccgggt gctcctcgcg gcctccgccg ccgcgggtctc cgggttccac   180
ctgggagggg acgagagcgg tctcgtgagg ggtgtgctcg ccgcgctccg ggaggaacc   240
gaagcccagg acgccgctcg cttcgccgct gccactaca acaagaacca gggcgccgct   300
ttggagttaa ctaggggtgt caaatccaag cggcaggtgg tgaccgggac cctgcatgac   360
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<210> 38618
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E3

<400> 38618

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ctttatgaaa ttgcaagggt acacagccaa caagattggc acatataacc tcgccatctc   180
cgcgaagcat catagcgtcc aggtctatgt ggcagcgccg gtaacttcca ttgatctctc   240
cctcccatct ggggatgaga tagtcataga agaaagatca ccaaaggagt tgctgaactc   300
tgaaggtggt ctgggaaagc aagttgctgc atccggtata tcagtctgga acccagcttt   360
cgatgttact ccagcaaata tgatcactgc aatcataaca gaaaaagggt tgatcacaaa   420
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 <211> 394

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-020-Q1-K1-E4

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 tgggtgaattt ccgaggcaca ggcagcccta ccgtggtggc ggccgaggct accgtggcgg 180
 tgggcgttcc cgtgggtcat attacggtgg cagaggctat ggaaacacgg ggaggggtgg 240
 ccctgggaat tcttatactc actggggcaa tgggagagat tgattatagc agcagcagcc 300
 atacttgagg gtgtttagt cttttgccac atgcatgaag cgcattccatt actatntaaa 360
 caaataatgg aaccttacca ccatgtcact cgtc 394

<210> 38620
 <211> 356
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-020-Q1-K1-E5

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 ataagatgga agtcagaacc atgtagttgt tttcgtttgt aattttgttt ctagagtgtg 120
 agatttgaca aggctgttag tttgcacctc ggatctgctt atatccacag ggcaacctat 180
 agttcagcaa gtattgagct atacatatgt cccgagaaga ttagatagat gagttggcgt 240
 cttggcgatc gatgtgggct tttgccgttg ttgttccttg caatttatgt tcgaaaaaaaa 300
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<210> 38621
 <211> 362
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-020-Q1-K1-E6
 <400> 38621

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cgcttgtgga gattgtgacc gcgatcaggg aagccaagga agctctgtca tcgaggttcc 180
ttgactgggt gagcggcggc gccaaaggaga accactacaa tgtgtcgtca gactacggca 240
ccctcgtcgt gactgactgg agccatgtgg gcttcaacga ggttgactac gggttcgggtg 300
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tg 362

<210> 38622
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E7

<400> 38622

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tagagacgac atccggatct tgttgctacc aaggcctaata aataatacaa gtgcatcaaa 180
ctgaaaattc caagtttctt cccaaaacaa ggcaactcaa aagtctagca tatattatat 240
gtctgctaaa agcttctcca tctattcatt tccatagcaa ccctactgcc tgacttccaa 300
caaaaaagaa aattaacgaa agataaagca actaatgggc 340

<210> 38623
<211> 157
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-E8

<400> 38623

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ggcagccctt attgagtga aatgtgggat gcctttgtgt atatgtgaag caccaaaacc 120
agaaccttct tctacacctg ttaagaatat caacacc 157

<210> 38624

<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-D11

<400> 38624

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caaagcgaaa gcagcaagaa gcaaagcaat ggagaaccct gcgagtgtgc tagttctacc 180
agcgcagttc accaaactca ccttcggaaa cctgtacatc cgccggggccg ggccgggcag 240
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cgtctacgac ggccgcggcc ccgacgccag ccttgtggcc cgctgtcagg ggatcaccag 360
cgaaantcgg gacgcgcacc aacttgtcgt cgatgtgttc gacaccgaca ggctcaaggg 420
gctcacgctc gtcaccaatg gcgtga 446

<210> 38625
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B8

<400> 38625

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tttgagcttt gtgaaggggtg ttgttgactc aatgacctt ccattgaatg tttctcgtga 180
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gaactttgga aaaattttta agctgggtgc catggaagat aaggaaaatc acaagagaat 360
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<210> 38626
<211> 345

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-020-Q1-K1-B9

 <400> 38626

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 gggcggcgtc gccaccgccg gcctcgccgg tatcttcctc ttgggcggca aggagaaatt 180
 caatggttat ctgtgccgcg aaggcgagag gcttaggcag caggacagag ccacgatggg 240
 ccgaagctaa gcgttagctt ctttggtatc tcaagggagc aatagccctt ggaaatttca 300
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<210> 38627
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-020-Q1-K1-C1

 <400> 38627

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 aacggcatca accccaacgg cgggttctctg tcgtacggga acatggagag ctacgcgatg 180
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 cgctccttct ccgcccgat ccctgagtac tactacgacc ggtccggctt ctccgncttc 360
 gtcgccaaga tgtgacctga ccg 383

<210> 38628
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-020-Q1-K1-C10

<400> 38628

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gcaggtatgg ggcattggatg atagaaagat agttgcttgg ggtgaaggac ataattcatg 180

ggttagtgga gttgcttttg attcatattg gtccccacca agttctgatg gaaatggaga 240

aaatgtatat cgcttcgggtt ctgttgggca ggacacccaa ctacttctgt gggacctggc 300

actggatgag attgttgtcc cactacggca tccttcaagt gcctcaccta cgttttagcag 360

cgggagccct ttcacacact gggacaatgc atgcccttca acaggtgttc ttcaaccttc 420

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<210> 38629

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C11

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aggcggttga tctggccacc aaagaactag gtggcaagat tttgcggcag ccagggcctc 180

tacctgggat caacactaag atcgctcttt ttgttgatcc agatggctgg aaagtggttc 240

tggttgacaa caccgacttc ctcaaggaac tccactgaag gctcgggata cccatgtgct 300

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cctgatgaac ttataatact g 381

<210> 38630

<211> 445

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-020-Q1-K1-C12

<400> 38630

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caagttgaag gagagaggca ttttagcgaa acccacacat gacactataa tccgacttgc 240
tcttccccctc acaatcagtc ctgaggagct tgcagaagca tccaaggcgc ttagtgacgt 300
gctggagcat gacttgccac agctgcagct gcagaagcag ataaaaaagc cagaatctga 360
ggcagagaag ccagtctgtg acagatgcgg ccgggacttg tacggatgaa tgaagcctnc 420
gaacagagat aacttcattt tcgta 445

<210> 38631
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C2

<400> 38631

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tgccccggtc acaggagctc cgactccgag ccctctccaa tggcgggttaa ggtctacgtc 120
gtgtactatt ccatgtatgg acatgttggc aaactagctg aagagatcca gaaagggtgcc 180
tcgtctgttg aagggtgttg agctaaaaca tggcagggtcc ctgaaaccct ccctgaggaa 240
gtgcttggaag agatgggcgc accccctaag cctgacgtgc cagtcatcac gccgcaagaa 300
ctcgcagagg ccgacggaat cctcttcggg ttcccaacga gggttcggaat gatggcagcg 360
cagatgaagg cgttcttcga tgccactggg gggctc 396

<210> 38632
<211> 425
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C3

<400> 38632

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cgagtgactg atcttaatga ctcgattgtg gtgttgctca caagaatgat ccaaggatgc 120
caggatgctt ctcttggggg ggaagagggc aatgcttttt cagaagaaaa ggctgtggca 180

gctcgtgggc atcaactgaa gatcatagtt gagccgggca caaccaacat cgggtggaggc 240
aacgtttagt tttcgtcaag gcattccttg ggaagcagtg aagcctcaag taagcggaag 300
ctccacatct ctgatgggca agaaaagaca gaagaatcgg caagcacttc aaagcgactg 360
catagaacat caagcatccc attcgacttg aaccttccag gcgacgatga ggaagcccat 420
gatga 425

<210> 38633
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C5

<400> 38633

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ctgggttctt gctgggtcttc gctttcttgg tggctaagct gattgccact ctgatcgctg 120
tatatgccaa ctgggcgttc actgcgatca agggcattgg atggggctgg gccggtgtca 180
tctggcteta taacatcgtc ttctacttcc cgctggacat catcaagttc ctcatccgct 240
atgcgctgag tgggagggca tggaacctcg tccttgagca gaggattgcg ttcacgagca 300
agaagaattt cggcacggaa gaaagggagc gcaagtgggc gcatgcgcag aggactctcc 360
atgggctcca gccgccagaa gcatccatct tcgagaacaa gacgacattc aatgagctga 420
accagctcgc gg 432

<210> 38634
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-020-Q1-K1-C6

<400> 38634

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cccgcaacaa atgccagtgg cgccgcagca gccgatgtat ggtgggtggtg gtcgtctggc 120
agggtacatg cagcatcctg ctgtggccgc tgcacactac tacagtaacc tgggacggcg 180

gggatgtatg ggtaccccg cgcgaaacggg ctgtcccagg gcatgtatgg cctctcggtg 240
caggataact cgtcgtacca gactacgaga gcgccaccct ctgcggcgac gaagcccgaa 300
gacaagcttt tcggcgacct tctgagcatt gccaaacca agaaagcttc atgagacgag 360
caggagcatg agctttgtcg tttgatcttt tacacttggt taacattcat tgtctggctg 420
tcgtataagc tttttgggtt ctctnttttt tt 452

<210> 38635
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C8

<400> 38635

cggacgcgtg ggctgagaaa aacaaggagt cccctggtgg accatggcag ttcgttggtc 60
tgttgccct gtttgatccg cctaggcatg acagcgctga gacaattcgc aaggctcttg 120
gtcttggtgt taacgtcaag atgatcacgg gtgatcagct tgctattggt aaggagactg 180
gaaagaggct tggcatgggt accaacaat 208

<210> 38636
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-C9

<400> 38636

cccacgcgtc cgctcgctcc agccgcttac agctccgccc ctgcctctc cgaccgccc 60
gagaatgccg ttcaagaggt tcgtggagat cgggcgcgtg gccctggtga actacggcaa 120
agactatggc cgctcgtcg tcatcgtcga tgtggtcgac cagaacaggg cacttgtgga 180
cgccctgat atggtcaggt gccagattaa cttcaaacgg ctctcactta ctgacatcaa 240
gattgacatc aaacgcgttc ccaagaagtc aacctgatc aaggctatgg aggaagctga 300
tgtgaagacg aagtgggaaa acagctcatg gggcaagaag ctgattgtcc agaagaggag 360
ggc 363

<210> 38637

<211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-020-Q1-K1-D1

 <400> 38637

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 agactgcgga ggagctcgcc acccagatcg agcagcagaa gctcgaggag cagaagaccg 120
 aggcagagga gggtgtggtg gaggatgagg aggacgacga cgatgaggac gatgaggatg 180
 atgatgaact tgacggacaa gaaggggatg ccagcggcaa gtcaaagcaa agcaggagtg 240
 agaagaagag ccgcaaagcc atgctgaagc ttggcatgaa gccatcact ggtgtcagcc 300
 gtgtcactgt gaagaaaagc aagaatatac tgtttgtcat ctggaagcca gatgtgttca 360
 agagcccgaa ctcagacaca tacgtcatat tcggcgaggc caagatcga 409

<210> 38638
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-020-Q1-K1-D10

 <400> 38638

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 gatcatatca tcacacaatg acacaaacag aacgtaacca aagaagacga ccataccat 120
 acccaaactg ccatgcgtga gaatagatag acagaaagaa caggaactca accaacacaa 180
 gacacagcaa gctgcagccg cggcaggcat ggggcaccgt gcgcactgac accgggcccc 240
 accaccatta ccaccgacg cacactntat ttagcccacg tctctgcag cccgcaccgg 300
 acacgtccac gcgacagtca ctgctagcta cgtaccgggc tacgtacgac acacacacac 360
 acacacacag agagacgcca gtaaccgtag cgtactgaac agcaaaatcc cgtgtcatac 420
 tgccatgtac gcgcgcgaga g 441

<210> 38639
 <211> 389
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-B4

<400> 38639

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catccgccag cgctacacgc tcgccgacgc gcaccaacgc tacgccgagt cgctgcgcgc 120
cgteggcgcc ctgctgcacg acttctctcg cggggtccag tcgctgcgcg cgnccgncgc 180
cgagcccgcg ctccgncctc cgcagcagcg gaagggcgac ggctccctg ccgcgctgcc 240
gccggccgcg atggcgtgct cctccggcgc cggcgacgcg ccggccgctg ccaagcaggt 300
ccgcacgcgc cccgacgacg ggcatacca gttctncgac ggcgactccg attccgagga 360
tgggcacatc aagttccact ccgacgaag 389

<210> 38640
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A1

<400> 38640

ctcgacgacg ttgtcacgcc ctctcagctt cgctcgacca tcgctaagga gatccgtaaa 60
aaccagaacg tcaccaaccc caagggtggtt gatatgcttc tgttcaacgc gacggaggag 120
ctgaacaaca tagtcgaaca tgcaaagcag cgccatcatg tgattgggca gtatgtgac 180
ggccaagagg gcctggtgca tgagctgggg tcgaaggatc tagggaactc tgacttctg 240
aagaaattct acacaagcaa ttacttctga tctgtgttgc agatttaca catctggtat 300
actccgggtg gtgctctgaa taagacgaca ctgaggacct a 341

<210> 38641
<211> 378
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A10

<400> 38641

gatggctttt cctccccctt cgggttcgggt tcgggttcgt gaggatctgc ggggttcgga 60

ggcgtgggtg agcggatcga gatggccgcg tcagatgttg agtaccgatg cttcgtctgc 120
 gggctaggct gggccacgga cgatcacttg cttcacaacg tcttgagcac ctacggcgag 180
 gtccctcagt acaagatcat cctcgatcgg cagacgcata agtaccgcgg attatgattc 240
 gacaccttct gcacggatga tgcgatgcag aacgccatcg agggcatgaa cggtaaagag 300
 ctgtactgct cgaacatcac cgtgaacgag ggccagtccc gcggaggtcg tggaagcgag 360
 cgcggcggag ggtactga 378

<210> 38642
 <211> 165
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A11

<400> 38642
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 cgacaatgac ctgacttctg ctggcaatgc tgatgatata aaagatgacc tgaatggtct 120
 cgacaaggct gctagtgctg atctaggatt gagaactata aaacg 165

<210> 38643
 <211> 371
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A12

<400> 38643
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 ggcacttctt gacgaaattg gtggcagcac gtcgtcctgt atccatgtca tcgattttga 120
 tcttggcgtt ggaggccagt gggcttcttt cttgcaggaa cttgcacact gccgtggcgc 180
 aagtggcgca gctctgccgt tcgttaagct cactgccttt gtatcagctg cttcccacca 240
 tccactggag ctgtgtcttg cgcgtgacaa cattgcacag tttgctgctg accttggaa 300
 tccctttgag ttcagtgcta tcagtgctga tatgatcaac cctgcagaat tcatttctgc 360
 cgctgatgat g 371

<210> 38644

<211> 464
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-020-Q1-K1-A2

 <400> 38644

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 ttgagcgagg aaggcaaaaa ggagttcaac aaggcttata gcgcacgttt ttacccatgc 120
 atggatatac tctacgaatg ctatgaagat gtggcctctg gaagtgaat ccggagcgtg 180
 gtgttggtg ggcggagggtt ttatgagaaa gagggcctcc cagcttttcc gatgggcaac 240
 atcgaccaa ctcgcacgtg gaaggttggt gaaaagggtgc gctcaaccgc ttcggaaggt 300
 gatcttggcc cgctccatgc cttcactgct ggagtgtaca ttgccctgat gatggctcan 360
 attgagatcc tgaggaagaa ggggcactcc tactctgaga tcatcaacga gagcgtgatt 420
 gagtcggtgg actcgtgaa ccccgttatg caccgcccgg gggt 464

<210> 38645
 <211> 448
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-020-Q1-K1-A3

 <400> 38645

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 gtgagtagca cgacaacaac aatggcttcc ctgaaggccg cgaagcccag cggagttgcg 120
 gcgcagggca aggagccggc gcccaagctc agcgagacgg cgacgaagcc gtcagccgcg 180
 aagagcggcg gcgttaagaa ggctgagcag aagccccggg aaaccaaag gaaggtgaag 240
 agcagcaaac cggcggcggc ggccaaaaag tgacgtacag tacagtacgt gtggagtgtg 300
 atggagcttc ccatgcatga gtgaatccat gccatgttat gaatctagtc ctccctttct 360
 tgtatcttcc atgtgacgcg gcgtgtgcgt cccctcatgt gtgatgatgc cagatgaata 420
 ctaacaataa gaacgttgtg tgactggc 448

<210> 38646
 <211> 380

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-020-Q1-K1-A4

 <400> 38646

 gtgtgtatgt attttttttag tacaatagta ttcaaatgt atgaggactc tttctttttg 60
 attgttttga acaatgggcg tatgaaccgg tggaagaaca attcatttga tagttgtttg 120
 tgtccaaaat ggaactaaat ctaaaatttg tggagcaaac cactcaatcc agatctctat 180
 ttaatcaaac attttttttg ttatgatgca gtccacacg tgaaatagcc atatggatat 240
 gtaacaacat aaatttggtc agtgggaaat aagtttctat aatacattta tgcacccagg 300
 tgacaagaaa aaaatatttt gtcatttcta taaaacatga tgcatttttt ctcaattcat 360
 agtgtgatgt tattctctct 380

<210> 38647
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-020-Q1-K1-A5

 <400> 38647

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 cagtctgca agttgctgct gctgcccctc cccctgtctc tgtgattggg ttcgagggat 120
 ttgagaagcg ccttgagatc agcttctctg aggcacctgt cttggctgac cccagcggaa 180
 ggggactgcg tgcgctctcg cgtgcccaga tcgactctgt tcttgacctt gctcgggtgca 240
 ccattgtgtc cgagctctca aacgaggact tcgactctta tgtcttatct gagtcgagcc 300
 tgtttgtcta cccatacaag attgtgatca agacctgtgg aactacaaag cttctgctcg 360
 ctattccgag gatccttgaa cttgctgaag agctcctgtt gccactcgct gcagttaaat 420
 actcccgtag aacggtcata t 441

<210> 38648
 <211> 216
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-020-Q1-K1-A6

<400> 38648

atTTTTctgc gcttgggaacc aacgaattct cacaaaacat cagcgaactc gtcggcttga 60

tgggcgtaga ggctttgcgt cgcaatctgg ataatcacat ttattttattg tggcgcggaat 120

cctggatggc cgcagcatct gtgtcagttg tcacctctgt ttctttcaat cctacttgac 180

tcagaacata aaaaaaaga ttcattgaaaa aacaac 216

<210> 38649

<211> 314

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-020-Q1-K1-A7

<400> 38649

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atgattcccc tatggatgtt tgccatagca gttacgtgtg gcaatacttt tggTcttaag 120

ccatcggaaa aggacccaag ggctgctatg atgcttgctg agctagcaat ggaagctggT 180

ttgcctaagg gtgttttgaa catcgttcat ggcaccaatg atgttgTcaa taatatttgt 240

gacgatgagg atattaaggg ctgtatcttt tggntggTtc caatacagct ggtatgcata 300

tttattctag agca 314

<210> 38650

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A8

<400> 38650

gtgcaaagaa aaggattggc tgtggttgat tgttctctggg cacgtttaag tgatgtccct 60

tttgtgaaac tacgttgctg tgctctctgt ctcttaccat ggttggttagc agcaaatect 120

gtgaactatg gccggccatg tgaactggca tgtgtggaag ctttatcagc agcccttata 180

atatgtgggg aggaagaatc cgcacatttg ctggttgggg aatttaaagT gggTcacgca 240

ttcttggtc taacagagat 260

<210> 38651
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-A9

<400> 38651

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ggaatcgcaa agagggccgt ctcacccgag ttaaggaagc catggagcac aaggaggctg 120
ggtgccaggc ccccgaggga cccatcctct gcatcaataa ctgtggcttc ttcggcagcg 180
cggcgaccat gaacatgtgc tctaagtgcc acaaggagat gataacgaag caggatcagg 240
ccaagctggc tgctctctct atcgacagca tcgtgaacgg cagcgacgcc gtcattggagc 300
cggttgttgc tggcagcaac acggtagtag ctggtgcca agtcgagttg caacaatga 360
acgtgcagc 369

<210> 38652
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B10

<400> 38652

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tctactggct tattggcaat acaagttttg gaccaacctc tggatcactg gacacacaat 120
ctgtggagaa caagagttga tgctggtctc tctctgcaac aactggacat aggttgtgta 180
ctcgacccta ttcggtggat atagccgcag tgacaattat gacacgtttg atgtgcac 238

<210> 38653
<211> 318
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B11

<400> 38653

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gtgatgctgg tatggtgaag atggttccca ctaagcccat ggtggtggag accttctctc 120
 agtatcctcc tcttggtcga tttgctgtcc gtgacatgag gcaaacggcg tctgtcggag 180
 tcatcaagag tgtggagaag tatgacccaa ctggagctca tgtgacgaat gctgctgcc 240
 agaagaaatg atctatctgg ctggtgacga atgctgctgc caagactaaa tgatctatct 300
 gtctggtgct gtgcttgc 318

<210> 38654
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B12

<400> 38654

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 ctcaagaaga tgacaaagtt gccctctgct gctttcttac ggtccgaagg caaatgtccc 120
 cttgcacctg aagaggctgt gcttatgcta gcagctattg gtttcaagcg cagcacaaat 180
 atatacgttg caggtgctga aatttatgga gggaaggata ggatggctgc cataagtcgt 240
 ctttatcctg ctttagtaac taaagaaacc cttctgtctc catcagagct cgaaccattt 300
 aggaacttct catctcagtt ggcagccctg gacttcattg catgctcagc tgccgatgta 360
 tttgctatga ctgaccagg aagtcaattc t 391

<210> 38655
 <211> 384
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B2

<400> 38655

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 ttggccactt caatgaacct caatacaagt aagttgaact agatacgtgt gcacccaaac 120
 aagacctagg ttaagaattt ggtgtccaaa gaagcccagg aaaccagaac aatcggtaac 180
 ctgtgttttg gccagcaagg actgcatcag catatataac aaacactaca catacacctg 240
 tgcttctccg ggcaaattt cataaacata gcgactttca tcgctcactc tgacagtcgc 300

tttgattgat cagttgccaa ctagagatgt gtccaagtcc taagcccccc atgtggcagc 360
 aaaaaggata cctggaggta gtca 384

<210> 38656
 <211> 403
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-020-Q1-K1-B3

<400> 38656

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 ccgcgccccg ctcggggcgg tccgcgcgca gtccgcgcgg gcggcggcag cggcgggcgt 180
 gacgcaggac gacctcaagc ggctggcggc ggtgcgcgcc gtcgagcagg tgaagagcgg 240
 gatggtgctc gggctcggga cgggctccac ggccggcttc gccgtcgccg agatcggcgc 300
 gtcctgggcc gcgggcaagc tcgagaagat cgtcggcggtg cccacatcca agcgcacctt 360
 cgagcaggcg cagtcgctcg gcataccgct cttaacgctc gac 403

<210> 38657
 <211> 378
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H8

<400> 38657

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 ggcgtcagtg ttcaaggacg ctcttctctt tacgcgtgag ttcaagtct aaagtaaagc 120
 cgtagaacia ggagttacgt ctttcgcgcg aaccctacia gatcataatt tcaccagggt 180
 ccgcccggcc gcgctcgac tgaagggaac cgaacgcgac caacccttc ctcacctcaa 240
 cagagggggc ccaactcttc ttaacatctc ctaacttata ttcaattgaa taagtttcca 300
 acacgacact ccataccggt gcactcgcgc aacactacga acaaaaccgg tcaccacgca 360
 cctcaaggcc cacgaatc 378

<210> 38658

<211> 360
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-G2

<400> 38658

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tccgcctact actactagag caaatatagt agaatttcag tgtgttgccct tcttgatgat 120
ctatacttta tttatctatt tatttttacgg tgggtaagtc tcttattagt gttgatgttt 180
tggttctggc gtggtctctt gtagtagtgt aagtggtcgt gacttagttt cctcntttgt 240
gtcctcctcc tcttctgtcg gttgggatta atttggttcc tttgtactgt tgtactgtta 300
ccgttgctga ctctcttgat gagcttgttc ctgttgctaa gcgggttgcg tagaatcatt 360

<210> 38659
<211> 349
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-G3

<400> 38659

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atcataatat cgtctgcggc gcgtagaagg cctcctagaa tcataaaaac tcctaggaca 120
ccaccgtcac tccgggcacg gacgagtcta gcgaggacga taagtcgata gctgttttgcg 180
taagaaagac ctagtgcctt tcgagttagt tcccttacgc tgtcgaagcc nctatgggag 240
tcttaggaaa gcacgcggag tcgaaggaaa gtgcgaagag cccttagggc gccccggacg 300
ggaagcacga cgaattcttc gagtagctac ctcatacggc cggcggtac 349

<210> 38660
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G4

<400> 38660

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 aaaaaaaaaa aaaaagaaga aacgcaaaaa aaaaaaaaaag ggtggttggtc tcagaggact 120
 taagtccatg catgtgcgta cgtgatgcta cagtctcttc acagggctat tcaaacctaa 180
 cctatcgggtt gctgccccat aatgctgcga tcgggaaaat ttcggtgcca tttaatccaa 240
 ctgttccgta gtatactttt tccctgtagg tcgggtgcaac agttaagagg tttgtattga 300
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<210> 38661
 <211> 483
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G5

<400> 38661

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 ctttgcaacg gagattcggt tgctggcgaa gaatacttct ccgtcggatc tggagggaaa 180
 gtgtgctgtt gcaaagcatc atagtgcga tcggttcac tcacttgtga agtcggttcc 240
 tgagaagctg gcaccatta aaatttagaa agtgaacgtc ggaatggaag ccgagaccgc 300
 aacgcccgat ggctaaaccg cggcacataa gcctacttaa gattcgtatc cccccgcat 360
 cggaggagaa gaagagaatg agtccacccc agtactagcc tcctagggac ctctcgacgt 420
 cgctgaatga tcctctaaaa atacggcccg ataaaggata gtatctgaga acccgacac 480
 gac 483

<210> 38662
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G6

<400> 38662

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agactcgtgt ctttgcgcac tacggactcg ggtactcgtc cggcatttgc atgtttcgtt 180
 actgacctgc ttaaggaagg gcaaggcgag gcggcgattt gatgttagtt agacgagacg 240
 agacttaccg aagttgatag ttgagggccg ggcgcacaaac acggagctga cgagcgcggc 300
 gccccctcg ctttgaggcg aaggatatag atcgccgcct gccgtctccg ctt 353

<210> 38663
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G7

<400> 38663

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 gaaccgcctc gtgaaggctc tccgcacggc ggtattcaag agtactactc ttcatttata 120
 ggctcggaaa gggtaagggc tgaggaagcg gaagtccgat tagagtgatg.ggcctcctgc 180
 gtaacctgag gtattggtgt cgaggaagac acggccccgcg ttaagtataa aagagaaggg 240
 atggataccg cgtaagagtt tcgaggttcc ggatactggg acttacgaag cgtctttttg 300
 cacacctaag gaggtagtcc aagttaaaca acggaagatc gcttacggac ctctgacttc 360
 gtatagtgtc cgtcgg 376

<210> 38664
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G8

<400> 38664

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 tatacgtgtg ctggggtgtg cggatacagt cgtccggtgg ttatatattgg aagtggaaacg 120
 ggtgctgggt aagtgttggg gggtttgggt gcgtcttttt cctcggtctgc tgggtgggtct 180
 gcggggggtgc cgggtgggtaa tcgggttggg ggtaggaatt agaagctggc tttgggtact 240
 cctaagcctg ggggatctgg ctctgaagg tgggtaatcc aatgctaaat ggatgggttaa 300
 aggggccaat aatgggtggg tcctttcatg ggaggattcc ccc 343

<210> 38665
<211> 145
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G9

<400> 38665

aactgaaaaa ctcataggaa aacttgagaa gcagataact gattttaacg cggataatgt 60
agcatgccta aagactttgc aactgatgaa gaaagcaatc gcccttggtc tacatgtggc 120
tgaagaataa cagatctcga ttgaa 145

<210> 38666
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H1

<400> 38666

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tcttctcatc tgtagctgt tacgggtaag accaagactg gaactaatgg tcctggaagg 120
actggtaggt ctgcgggttag ggctgtttct tagagtgagg acgctgagtc tgctgttgct 180
aatgattttc ctactattat ggatcatacg attcatacgc ctaagcatga tattgcttat 240
ggttatcgga agtatagtga tactatatct aaggatctta agatttcctc tcctggcgat 300
aagttggcta ttgctcccggt tactaggaat ttcgaggaaa ctttgccggg cgaggtcggt 360
gtcgagcacg ctgcggagct tattggtgct cctatcgata aggataaggt cgtcgtatac 420
tctaagggcg gcgttaaaga gggccgcact ct 452

<210> 38667
<211> 149
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H10

<400> 38667

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cgacgggatc ctgcgatagc tataccatgc agctcaggat gcctactaca ggcgatggga 120
 tgcgccacta tagcgcacta atctcatga 149

<210> 38668
 <211> 223
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H11

<400> 38668

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 ggcttccaaa actgggtgtg acataagtgg tatcaaagct gtgctgactg taggaccgct 120
 ggcctagagt agaattggcc gtgttaagga cttattgact attacttcac ctcatccttg 180
 attttgattc aaaatattag tcacctcgac taattttatg ttg 223

<210> 38669
 <211> 238
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-019-Q1-K1-H12

<400> 38669

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 agcactgtta atgcggctga gggcaaggtg accgtgtntt accgctggcc tatagtacaa 120
 ttgtccgtgt caaggactta ttgactatta cttcacctca tccttgattg tgattcaaaa 180
 tattactcac cttgactaat tttatattga aacaaacgta cgattagaaa agtatact 238

<210> 38670
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H2

<400> 38670

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 gcctcgagtg cggatggatg tgcgggtgga tgtgcgagtc gttggacggt cgaaacggtc 120

gtcacgatat atcgagtccc caatcgctcg gaccctcgtc gcgataccga accttcactt 180
gcactagaaa tcacccggac tacacctatt caccatgcct aaagcataga tatatgcata 240
atggataatc gagaagtctc agcgatacgt atatctaagg atcttaagat ttcctctcct 300
agcgataagt tggctattgc tcccggtagc aacgatttcg aggaaacttc acggggcgag 360
gtcgggtgctg aacacgctgc ggagcatact gatgctccta tcgataa 407

<210> 38671
<211> 367
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H3

<400> 38671

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aaggacgccg ggtaagtgc ttcggagagt catctgaggg cgccggagag tccggtcctt 120
aataccgccc tgcgggctga tgacgcttcc cctgctgata ggctgaccag gaaatcgagc 180
gacaattcta agcttcgagc ctcccacttc gtatcgaaagt cctttagtaa aaaggcccca 240
gacgctcggc ggcgaagtgc tataagaaaag gcgtgcatc gcagcactgg catcagggcg 300
accccgctga ttcagagaga cgtaagttct caatcccgta agaacgtata acgtaaagca 360
gtgcgct 367

<210> 38672
<211> 358
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-H4

<400> 38672

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gntcttgtct tgctaagtgc gcgtcttgtt ctgctgagga gcctagtggg gctgttacgg 120
atacntagga ggagacgttg gtggatgatt tgcgtcgtg ctttcggtag tcgtttcatt 180
tggtcgttgn tacgtttact ggtgttttgt atacgtctta tcacgacga ccgttcctat 240

taattatatt attacatact cgaggctcgt agtcgggggtc ggccggtaat aagataagaa 300
gaaccgggtcg ttctctaata atacctatac tcatcattca ttcggtcgtc ccgagaac 358

<210> 38673
<211> 481
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H5

<400> 38673

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tgttccttgt gaattgatct ttgagagggt gagattatct tgacgcttgt tacggagatt 120
gataactaatg tgttgttggt tgttttagtt ggtgagggtc ttcttgccgc tggcttgctt 180
cctctacatc cttgtaagtt taataagtgt cctgagactt agaagcggaa tgtttctgtg 240
tctcgggtac gggacactgc tgctgataat cgggttactc ggtggaatta tactacggac 300
tcacgtactg agcgtaagt gaattaagtc agtgtgatta gtgaggagcg tctcgtgtc 360
cggggcgctc gcaactacgt tccctatccc tctcgtccta ataggcgggt caagatctgt 420
taagcgcggt taccagacaa tagcgagcgg gagccttaga aacaccgtta tcagccttcg 480
g 481

<210> 38674
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H6

<400> 38674

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gagaacactg gagcctgggt acgctgaagt ggtagggatt gttgaaatat tagaattgtc 120
atgtgcggaa gttgaattcc ggctagaaga ctaatgaaat tgagtttggg ggtaggcctt 180
gattctcgtc agaaactatt ggtgctcgtc agtgtcgttg ggactaaact gatcggaaat 240
gtagacatgg aaaacataag ttaccgccg agttagtaaa acgttagaag cgcaacaagt 300
gaaatgcctg gtaagtacat tacaatgcac gtagagaccg tcttaaggat tctgggtacac 360

gcgtcaagcg tcgtatacgc gccaacgag

389

<210> 38675
<211> 191
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-H7

<400> 38675

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catttgagac tgggtgacagg gatgttccgg cgattgatta agtattataa ttgacatttg 120
ctgaagttta attaccggtt agaaaactaa tagaaattta ctttaaattct aaagattatt 180
ttacgcttca a 191

<210> 38676
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G12

<400> 38676

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ggacctcggt gatgccgccg gtcggttcgc aacgcagacg atcccttccc gcaacgcctg 120
ctccaagtac gatttcgtca aggtcaaggt ctgggtcggg gagaacgccg accactacta 180
cgtcctctcc aggttcctcc tcagcaggat gtcacagtc accaagattc ctaatcatgt 240
cgccatcaag attgcccttg agctcaagaa gctgcttgtc gacaacagcc tgcttgatgt 300
atcccagagt gatctagaag ctaatctggt caagcttatg gaaaaacggg gatacggaga 360
ggagtatata aatcgctata aaatgatgac aaggttccat catcaacggg ttccactagt 420
aattttggtg tgtggaactg cctgtact 448

<210> 38677
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-E8

<400> 38677

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cttccgggtc gaagaagttg taggaatgcg tcgactctac cgtgcattcg aaggaagtaa 120

tcgtgcagca caacgatatg ttcccgttac gaagagaaaa cctgccccgt agcccaacaa 180

caaatacccc cagataaccc gggctatctc ggccggatag ggcataaac tcatgctcta 240

gcacccccgc ctccacgggt ctggcaccga acgttcaggc gagccccccc cagtcgcgta 300

taaaaaaata gccaaatctg acggcactct aatcgtcgga gaaacgtcag cgtttcaccc 360

ccggtcgcgg aaccggaaac tcggaacgta cttaccccg 399

<210> 38678

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-E9

<400> 38678

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tgttacgtcg ctccaggggc catgaccatg cgttctgctt gtactgtgga ataaataaat 120

gatgggttat ggtactcttt atctggtaga gtttggcagc ttgtgctttg agggatgtaa 180

tagtggcccc gatgtttgta ttttcatggc gagccggaaa ttttgtggaa taaaaaaaaa 240

aaaaaaaaat ataaaaata aatagataaa aaaaaacaac ttgtaacaga ctcatataac 300

gcagaaaaaa aaataataaa cgcacaaagt taccattaaa aataaaaagg gcgccctttt 360

taaaggaccc aagtt 375

<210> 38679

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F1

<400> 38679

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cgacttcctc gtagggacat caccgggcct tattgatctt ataggagaat tctattcatg 120

aaggatcga gacggtgatg catgtctaag gctactacag gaaggtcaga agtccactga 180
 gtagtgaata cggagacggc gtcgatgacg tcgagaagtt tacaagggtg tgtagaaaag 240
 ttgatctcga gtcgatgata ggcaaggagg ataacgggtg ccgttctccg ttaagggtcg 300
 ggtaagggtc ggtttccgag ttaaaactcg ggagctgatt agatgggaat ggtagttagt 360

<210> 38680
 <211> 330
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-019-Q1-K1-F10

<400> 38680

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 cgcgccctca atgttcaa atgcaggaaac tccacattcc tggacatctt caattgaatt 180
 gggaagaaca ttgcacgtct acgttttcag gccgtttaag attatctgat tgacagtttc 240
 acgcctaaca tngtacanga tagattaaga acattngttg ctgctgctcc tgaatttctg 300
 caatcaggat ctgctcagcc tatntttgat 330

<210> 38681
 <211> 466
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-019-Q1-K1-F11

<400> 38681

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 ggcgctgtgg agatggcggc gaatctggag gacgtgccgt cactggatct gatgcacgag 120
 ctgctccgnc gcatgaagtg cagctccaag cccgacaagc gcctcatcct catcggtcca 180
 cctggctctg gaaagggaac tcagtctcct attatcaagg atgaatattg ctngtgcca 240
 ttagccactg gtgacatgct gagggctgct gtggcgcca aaacacctct aggtatcaaa 300
 gctaaagaag ctatgaataa aggagagctn gtttcagatg atttggttgt gggcattatt 360

gatgaagcta tgaagaaacc ctcatgccag aaaggtttca ttcttgatgg cttttctaga 420
actgtgactc aagcacaaaa gcttgatgag atgttggcaa aacaag 466

<210> 38682
<211> 476
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-F12

<400> 38682

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gccggtgttc gagaggggtg cgggatccg agccattgcc gagtccggcc gcttcaaggc 120
atggttgctg gaccagtttg gcgttcttca tgacgggaag aagccgtacc cgggcgcat 180
tctggcattg gagaagctag cggagaatgg ggcaaagatg gtgataatca gcaattcctc 240
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cctcgcgacc atcaccagtg gggagctcac acatcagcac cttcagaaga gagacgaccc 360
atggtttget gctcttgaa ggaagtgtat ccatatcact tgggacgatc gaggggcaat 420
ttctctcgag ggccttggtt tgcangttgt gaacaatgtt gatgatgcag agttca 476

<210> 38683
<211> 175
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F2

<400> 38683

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acgtggccga gactagggta acgggtgggg tggaggtgtc cggttagttg gatggctacg 120
tgaatggggt ttgggcggaa gagaaatccg atccctcctg gtggtagtcc gggaa 175

<210> 38684
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F3

<400> 38684

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ggacgataac atacttggtta aagagggttag atcaatttgt tcctgccaca ccgactagta 120

aacaaggtaa tagtgagtcc cttaatagca cggcacgtca tagtaaaatg tccggagggt 180

atatagagga tcattcgaaa acctagctct gacctcttgg gtccgggtccc ccgaataccc 240

ttcctatttg cacttaaaag acctcgaaaa gtcaacgcca ctgagataaa tcggggccgat 300

aagaagctag accctaaatc ggctactaa cgtttgcgct tggtcgcgga agttaacgac 360

tgaagatacg cataaagaag agaccggcga agtggagtca 400

<210> 38685

<211> 365

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-019-Q1-K1-F4

<400> 38685

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accggttatt ctgcattaac gtctgaggct ggtaagtggc cgtctgtatg tagtgatcgc 180

ttttctattg ctattgcgtc tgcaacgttg ccgttcgtag aggtgaagtg ggtgcttgag 240

actattgagt atacatgtta gtaggaagtt cctgggtctg ttacttggtc ntattactcg 300

ttagtggcgg aatttttaat tgattatctg ggtactgagg agcatacact ttgtcatgcg 360

tagtc 365

<210> 38686

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F5

<400> 38686

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ggtacccccg gattggacca ccctaacgtt ggttacgcta accttagacg ataaggcgca 120
 atcgatacac ccaccgggcg gtcgtgaact ttaaaatata ccacttcgac gccgaccggg 180
 ccggagaagg cctccgaaag aaaacgagtt cactttcaaa tccgctatcg ccggaactt 240
 ggggaatttt ctcggagtcc ccaccttaag gttcacgtcc gagagaaccc tagactcgcg 300
 taaaaacgtc ggcgtacggg ccgcggccga taacattcac gagcatccca cgcacgacgg 360
 aacggagtat catcgtccag aagacgtcta caccgctaata tctcctctgc ctctaaaggt 420
 ccacggaacg acggggcggt gcgcaggaca taccgtaccc ttaaacg 467

<210> 38687
 <211> 203
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F6

<400> 38687
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 aataaaaaaa aaaaaaaaaat taataggtaa acattaaata aataaataca tatatcccct 120
 ataccattaa tcactacttt tatctatctt acttctactc caccaaactg gataattcat 180
 attcatatac tgcttttact ttc 203

<210> 38688
 <211> 338
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F7

<400> 38688
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 gatgctgagt aaggggaggg aaaagcctgc ccggtgcgtg ttacgcccaa gaagcctctc 180
 ctagaagaca cactcggata gaactaagcc aaggctctcg cataatgaaa gaccttgtaa 240
 agcactgtcg acgagcattt tagttccgaa ttcccgtcag acgatccgtc cttaaaaaag 300
 ctattcacga ccggcggcaa acgttaaaac tactccaa 338

<210> 38689
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-F8

<400> 38689

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 ccgtacttga cgacttgccc ctctcaagg aagggttcct ataaaaccct taaccgcata 180
 gtcgggagat tcaactagttc gcaagtgggt catccgtata attcgagcgg attgtgcggg 240
 attaaatcgc ggagcaccgc gtaccgctcc actagtagca cacagcaacc ctcttccgt 300
 ggttctaacc caggcattcc ggagacgctc taacctttcc cgtaatcggc gttgctcggg 360
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 gaaccgtaga caccg 435

<210> 38690
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-G1

<400> 38690

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 gtcggaaata agggcgctga agtcgtctcc atcctttcta taagatacgc cctcaaattc 180
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<213> Zea mays

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caggcgaaac ttacttact acgcaggcta tcctaccttg acacggatcg caaacttgta 180

ctcctcaacc tcaaaggctg taacatcctg attctgcca ccacgatcac agatcgctc 240

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<210> 38692

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<212> DNA

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<400> 38692

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cccacatgtg ctactccaac ttcaacgaca tcatccactc catcatcgac atggatgccg 360

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<210> 38693

<211> 469

<212> DNA

<213> Zea mays

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<223> unsure at all n locations
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<400> 38696

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<223> Clone ID: LIB3069-019-Q1-K1-D4

<400> 38697

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<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<210> 38699
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-D6

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tacgctttgt agcgtcggac cctcagta ggccgcggag ccggtatctc cgcatttgag 180
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<210> 38700
<211> 324
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-019-Q1-K1-D7
<400> 38700

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tccccaaaaa tttgggctta cgaacacgac catattcgcc ggctacgtag cgccgtaagg 240
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<210> 38701
<211> 374
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-019-Q1-K1-D8
<400> 38701

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tcgtggtatc ggga 374

<210> 38702
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-D9

<400> 38702

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<211> 263
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 38703

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ccccaggtac ctggaccgct gccaccttaa cgcgtcggtg accgaagacg gccaggtgat 180
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gtacaaccgg ttccttaacg aca 263

<210> 38704
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-E2

<400> 38704

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 gatatagtaa gccctcctcg aactcagctc gtaaagggtac ttaagacca taatagaaag 360
 tccggagaag aataagtaga cccattcgaa aacagaagac ccggttaaga agcattagcg 420
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<210> 38705

<211> 424

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-019-Q1-K1-E3

<400> 38705

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<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<223> Clone ID: LIB3069-019-Q1-K1-E5

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 <212> DNA
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<223> Clone ID: LIB3069-019-Q1-K1-E6

<400> 38708

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 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-D11

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 aactctgca tgtacctcct atgtttattg taaactttac aaacttcac atctaaaatc 180
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-B5

<400> 38710

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<210> 38711
 <211> 443
 <212> DNA
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 <223> Clone ID: LIB3069-019-Q1-K1-B6
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 <212> DNA
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 <223> Clone ID: LIB3069-019-Q1-K1-B7
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<212> DNA
 <213> Zea mays

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 <400> 38713

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 <223> Clone ID: LIB3069-019-Q1-K1-C1

 <400> 38714

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 <211> 378
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 38715

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 <211> 478
 <212> DNA
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<223> Clone ID: LIB3069-019-Q1-K1-C11

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<210> 38717
 <211> 470
 <212> DNA
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<223> unsure at all n locations
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 cgcgcgcgac ccgcagctgg cgcggtgct gcagagcatc ccgcagcgca aagtgtgttt 420
 caccaactcg gaccgcgcgc acatggagcg ggcgtggag cggctgggcg 470

<210> 38718
 <211> 473
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C3

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 agatctagtg atcgtgaagg agggacaagg ggacggttgg gactggattg actaggtagg 180
 atcgggagtt ggctgccgcg tggaagaagg tatttattgt tgttgtaag aaggacgaga 240
 aggttgctaa tgttggtgtg tgtgttgccg tggagactga cattacgaag aagcataatg 300
 tcggcatgaa taaggtggta cttagtggca tactttctaa tattaagtgt tctgatgatg 360
 atattgaaaa ttctgtttac gagtgagcct taagcgactc gaagaagaac tctacgtaag 420
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<210> 38719
 <211> 486
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C4

<400> 38719
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 tgttggttggt catactcttt ttgtgtttct tttcgtcttc ggacctatt gactcggtag 180
 gtcccatcgc tttgctacat ggcggtagtg ggagttgttt ttccttcggt cttatagtct 240

acgttacgta cggttgactt accttttctag actgggaccg ttgtagatac gttgccgtcc 300
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 atattgtccg ctcactttgc cttcacagtc cccagggccc tgagtctaaa tcttgtgttg 420
 gtactctagc cgtcgtaagc ggtggtggta agtcagaggt agtaatcgta cattccgtaa 480
 gaaaaa 486

<210> 38720
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C5

<400> 38720

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 cttggggcct ggccctgcgg gcgagtggac tgagacgggtg gtgctggacg ccgagcattg 180
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 tggtcctggt cctgctattc ctcttatgga ggaggtgacg tggaatgtta ctgagggtag 360
 gaatggtaag gagtcggatg gttgtaatac tattgctaata gaggttttagc tttgtgggtg 420
 ttgcggaggt ggt 433

<210> 38721
 <211> 453
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C6

<400> 38721

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 gcgctcgtct cgtggtagta ggcgaagaag ggtggtggtg gaggtggagg tggaggtagc 180
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tggcgtctta agatgtagca taggaaggtt cgttctattc cacgcaataa gcgtcgtggt 300
aagcgttctc gtgcgttatt ggggcctcat ggtaataagg gtgttcgttt tcgtcataat 360
aatcggaaaa ttaaggaagg agggtttaag cgttttcaga agacttattg tagtctttgc 420
ttgttaccgc ttttctctc ttgaactcgg aat 453

<210> 38722
<211> 486
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C7

<400> 38722

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cgatccgcat ccacaagaag aatggaaaat tcgtcgttac ctaacacgga attggcgtaa 180
ccgtcggccc ccctagcgag gacagtgcc aaccaggcga ctcggaacgc aacgactagg 240
aaccaccga agtcataaag gagttagggt ccattcctac ggccgtaaaa cccgacggta 300
cctccgggtc aggtccctag gaaacactcg ccgggaacgt aatattcgcg cggcacaata 360
cggcaaaata aggtcttact agcgatttcg cccctctcac tcggcccaat tgatacgctc 420
gcgaaggaga aggcggcgaa accgcgcccg gcggaacgga cctcagctat cataagggcg 480
actata 486

<210> 38723
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-C8

<400> 38723

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gtttcttagt gacgggcttg ctggtttcta atgataatag tgtcgttggt ggtgctgctt 180
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gccgccgggg cgctcctect tccagtttcc cctccccctct tctcagcggg agcggtaggt 360
aagagagaat tccgcgacga cgggtgtatc gtatcgttcc ttattggcgg aggagagtcg 420
ggtaacgcga ggttttcgca aactc 445

<210> 38724
<211> 268
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-C9

<400> 38724
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agttataaat cacatggaac ctattggtga ccttaatcat gtatctgttc tacgcgagga 180
catgacatac atgcatcata gaaaatttca cgccatgatt tcaaagttag cttaaaacac 240
acaactgtat tcagcgca tcaatcat 268

<210> 38725
<211> 459
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-019-Q1-K1-B4

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gatcaggcct cggcccgtag ataccgcgg tgcactcgg gcttctacac cgtctcgct 180
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tagtcaaagg ccgggttact acgggtccgat aagaaacgcc tagaaccgg attattcgcg 300
cacttagtac tagtctacct agccaggact ttagctcctg attcatcatt ctagacatag 360
tcggaggtag cctcccgggg aaccgggatc gtgtccggcg agtctttctt ccacccca 420

ctatgagtag tctgtccact angaagtgag ctaaaaagtc

459

<210> 38726

<211> 437

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-019-Q1-K1-A12

<400> 38726

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ggataccatg tgggagaccc taaccctaata gaggggggtga gtgatgtatt aatagactgt 120

gttaggtggg cctggcccat taccggcgtg agatagtaaa tacacggcgt agaaccctaa 180

accggtacat taacatcacc cactgtgtaa tctctttgac gaatagcaac acggttaagta 240

gagcgatcaa tacgataatg gcgatcacga agagaagtcc acatctgatg agactaataa 300

aagtgaacaa tcttggttagc acattgatcc ttcacactag cagcaagaac aaaacttgca 360

cgagcatnct catcgaacca caacttgtaa gcatcgaatt gagactcatg atgccatggg 420

atgatcaaaa tcagcaa 437

<210> 38727

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-019-Q1-K1-A2

<400> 38727

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atccgcatga tgcattgtta cgtgattcgc gcagtcgca gcagctcaac gccgtagcga 120

tacgcaacgg tgtatttttg cttcatcaat agacgtccat cggagaccgt tacagtcgac 180

tccgcaaccc gccacaggt agcacgaaca caccacggc agtccgaact caccgcgga 240

ccaaaaaaaa aaaaaaaaaa aaaaaagggt ggttgtctca gaggacttaa gtccatgcat 300

gtgcgtacgt gatgctacag tctcctcaca gcgtattca aacctaact atcggttgct 360

gccccataat gctgcgatcg ggaaaatttc ggtgccattt aatccaactg ttccgtagta 420

tacnttttcc ctgttagtgc gtgc

444

<210> 38728
<211> 450
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A4

<400> 38728

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gccggcgccct ccgggtctca taagggagac cggtctctct cggggctgct agaccttcca 120
cattacgacg aagcccgctc ttcccgagat tactgccgag tccactcata agtacgtcgc 180
gttcgccttg aagctcgagc gtagtaagat catttagccg ggcaccagtc ccgtcggcgg 240
ccatgccgtt ggcgtctctc gcgtcaccga cctctatttg gtcgataatt ccgcgctccc 300
ttcgaataac gttaagggag tcatagcggg agacgtcgcc aagaagtccg gctctcgggg 360
ctctcctatc agaggatcct tctcctgcac tgctacgacc ggcatttcca tcggcgtcta 420
gcggggaacc catgacgtac ctaaagcgac 450

<210> 38729
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A5

<400> 38729

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agcagtatta atgaatctta actctccaaa gtccatacag atgaatagtg agaataagc 180
taaaacacta cagggggccac gtaaaatgac cgcaggagat cagcatgcgt acccgacaaa 240
ctcagcacag taaaccctt cctatatgag gccgaaccag gagacaacat atgcaacata 300
ctgggtcaaag gccgtatga ttagctataa tttttccacg ggacgttgac ggatatgcat 360
ttcgagtaaa tgtaaactgg tagcaaatta gttgactcat atacg 405

<210> 38730
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-019-Q1-K1-A6

 <400> 38730

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 tgactcatca tgacccttgt atacctagta ctattaatgt atcgtaacat cccaaagcct 180
 ctacccatca atagtgagaa tagacgtatc aacacaacat ccgccacgat gactaatctc 240
 aggagatcgg atcgttaccc gacgcaatca gctcaatata tcgccaccca tatgatgac 300
 atccaggaaa caccatatac gacatactta ccatagaccg ctataactag gcataatttt 360
 tccac 365

<210> 38731
 <211> 467
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-019-Q1-K1-A7

 <400> 38731

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 atcgcttcct acaagtctgg cggttagcct tattcgtgtc tgactactct cgaaggcgca 180
 tgggtttgca atacacgttt actcgtctta ctccacgaaa ggagaccgt tataaggaat 240
 catacgattt agagttcccg gggtttccta acgctcgcca gtggcggtac taacgcttta 300
 gcgacgtaga ttttgtctcg cgtcaacgtc ttcgtcgaga aaggaggtaa gaatcctacg 360
 accgacccta cgacgggtgg cgcctagtc gtcggcctaa agatcgtcgt cgtctttact 420
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<210> 38732
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A8

<400> 38732

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caaatagggtt gaagaaaggc ttcgggatac taattcagga cggcctccag agttagcggc 180
ctgcggcgat cattttcctc ttacgagact accggtcagg gaatgatcat ttcttcctaa 240
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tctatggcct cttaaaaaata ctgacactct attaaatcat ctattcggt ctaatatcga 360
tgatgttcat gttagctaag aagccaatgg gttcgatggg aagtttaccg gcttcttcac 420
gggaaactta cggactcata cg 442

<210> 38733

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A9

<400> 38733

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gctgcaaattg ttgttgacaa aatcctccct gcgtgatctc cctgcgagcc cttcatcttc 120
aacattctga gccaatctag agggcgggcaa cagagcagct taattccatg atggatcttg 180
gaagcgatgt tcaagttcgt gctgctggag gtctcctagc aatattagac aatgagagac 240
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tatatcttct gtcattgggtt gggcttatgg cccagatgg cagtatgcca gatcagatcc 420
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<210> 38734

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-B1

<400> 38734

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ctcgagttct tgttcgctcc ctggactaga cgtcgggctt gactgaataa tggcgagctc 180

cgtctcgcca cccgaccgcc tcaaattgtac ggccccgccc ccgcgacgac gcgtaggcct 240

tgactcggcc tggccgaccg acgagccgat gtactggtct gaaatgaggt cgtacggccc 300

ccgcgttcgg aggcctctga ccagtgcgcc caaggaaatc gggcgttata acccgccgtc 360

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ct 422

<210> 38735

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 38735

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gttatgaaaa tcacataatg cactgacaaa atcctatttt tcttaccxaa ctagcactat 180

actcgttgat gatgttggtc aggtgcaaca atgctgttca atttcaagcc ggccatagat 240

aacatggcgg ttgatctgca gaaggggcct aaatcatcta ttatgatcca cgaaattctt 300

gcaccttagc aggcctcggc aatgtccaag ttacacgctt tgcacacact gaccatgcat 360

gcccaacttc cctcaacaaa ggcttgattc aaaatgacac aaatccttca atgattcaac 420

gtcctcaat 429

<210> 38736

<211> 474

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<210> 38737

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-B12

<400> 38737

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atatgcaaaa caaacataca cacctagaca atactttcat tacataactca tgacaatctc 180
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ccatcaattc atatccccca tatactctac caaccattac acataatcaa tgatcaacat 360
ctaattgaac attcatccat tctactatcc ctgcaata 398

<210> 38738

<211> 487

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-B2

<400> 38738

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 agtacga 487

<210> 38739
 <211> 328
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-019-Q1-K1-B3
 <400> 38739

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<210> 38740
 <211> 418
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-019-Q1-K1-A10
 <400> 38740

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ttgaagaaga acaagtgaca atgtagcacc atacgacact aagctgaatg gctgatattg 180
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 tgtgtgcata ttcttttttg ataatatatg tttgggacat tgaatTTTTT atttgcaatt 360
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<210> 38741
 <211> 388
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<210> 38742
 <211> 187
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-G2

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 cgttaca 187

<210> 38743
 <211> 388
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-018-Q1-K1-G3

<400> 38743

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tgctccgctg tatatgccaa agaactggtg acatcattcg cagtcttggtc gttgacgcag 180
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ggaagtctcg catgaaaagt tcgtaaaa 388
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<210> 38744
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-G4

<400> 38744

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taccggcatt gcgtcggcgc agcggctgct tcacagccg cggggcggca cgggggggccc 120
ctggcagcgg cggccgtgga gcagttcgcc ggttcctccc tgctgtcgg ggttcacaaa 180
tttttgaatc atcatttcag atactcaacc agcatttttc aaaagattgg tttctcgtct 240
gtttcaccac aacaaagtga tgatgatgtt aatgagctga aagaccacga aagggcctta 300
gatggatcaa gtgaagattg tccatctgga agtattgaag gccttgatct gtcgagagat 360
gatttgggtg agctagttcg tgagaaggat ggattgttga agtccaaaga tgggtgaaatc 420
aaaga 425
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<210> 38745
 <211> 408
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-G6

<400> 38745

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cccaagatga gcaggtgaag aagaagcggg gtaggccaag gaagtataag cctgatgggg 120

cggtgactct cgggttatca ccctcttcat cattaacacc tcaactcgcc agcttgggga 180

tgggaacat gattagtgt ccaggttctg gatttgggtc ggagggatca ggggcttcag 240

gcttgggtgc gccatcagag aagcgtggca gggggcggcc acctggctct ggaaagatgc 300

aacagttggc ttcgcttgga aagtggtttc taggctctgt tggaactggg tttactcttc 360

atgtgattat tattcagcca ggagaggacg tttgctgcca agaataat 408

<210> 38746

<211> 355

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-018-Q1-K1-G7

<400> 38746

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acttcagctt cattccactt ccacttggat cgatcgatcg catatggcgg tactgtgggtg 120

gtggtcacgc tcctgcttgt cctcccgcgc cgtcgtctgt gcgctgcttt gcctgctgggt 180

ggctcacggc agcgatggaa ccaggcacia cagcaacaat ggcggtggta gtggtagttc 240

cagcagcagc aagagccaca agcaaggcgg agggggacga gcccatgccg cgccgacgac 300

accgtctnec tcttcgtatc cgtctccggc ggctggcaac aacagcagca gcgac 355

<210> 38747

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-G8

<400> 38747

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tcctccggga gatgggcact acacggcaag acagccctcg tcaccggcgg cacccgcggc 120
 atcgggcgtg cggtagtgga ggagctggcg gcgctggggg cggccgtgca cacatgctcc 180
 cggaaggcgg aggagctcgg cgagcgcac aaggagtggg aggccagggg attcagcgtt 240
 accgggtccg tctgcgacct ctccgagagg gaccagcggg agcggttgct ccgcgaggtt 300
 gccgaccgct tcggcggcaa gctcaacatc ctcgtaaaca atg 343

<210> 38748
 <211> 424
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H1

<400> 38748

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 agcaccactt cgaatcgaag gccgacgtg gggcgtccaa gacctaccg cagcaggctg 180
 gcaccgtccg taagaacggc ttcacgtcga tcaagaaccg tccctgcaag gttgtggagg 240
 tttctacctc caagactggg aagcatggcc acgccaaatg ccactttgtc gccatagaca 300
 tattcaatgg gaaaaagctt gaagatattg ttccttcac acacaactgt gacattccgc 360
 atgtgaaccg tactgagtat cagctgattg atatttctga ggatgggatt gtgagccttc 420
 ttac 424

<210> 38749
 <211> 417
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-018-Q1-K1-H2

<400> 38749

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 atcaagatga gccgtggcgg tagcgcgggt ggtgggtcaaa gttctctggg ttacctcttt 180

ggaagcgggtg agccccccaa accagcagtg gcaccagctg taagtgtctc acctgctgct 240
gcaggtgctc cacctgctga gaaaccacct gctgcaaagc ctgatggcac cagtcagatt 300
gctgctgggg ttaccagcca aaccaataac taccacaggg ccgacgggtca gaacaccgga 360
aacttcctta cggaccgtnc ttcgaccaag gtccacgctt gctcctggcg gtggctc 417

<210> 38750

<211> 308

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H3

<400> 38750

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agagcagcag cggcgctgg gatatacgac gtgaacggcc tgagcctggt ggccgccggg 120
ccgaacagcg tgaagacggt gtccatcggg cagatcctga gcatgaagct ggaccgcgag 180
ctcgagatga cgaggacgac cacgacgagc gcgaggaaga agaaggctctc tctcgggcag 240
atcctgagcc agaagtacga gatgttctcc ccgctgcgga tcgaccacga ctgtgcctcg 300
cacaggca 308

<210> 38751

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H4

<400> 38751

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atgccggaaa atcaacaagg aaactaataa tatgggagat cagggtggcc cagttaaagt 120
cgtgcctttg tactccacac tgccccagc catgcagcag aagatttttg aacctgtctc 180
tgccccattg aaggaaggag gtcctcctgg aaggaaaatt gttgtgtcca ccaacattgc 240
tgaaacatcc ttaactatag atggcatagt ttatgtgata gaccgggggt tttccaaaca 300
gaaagtttac aacccaagaa taagggtgga atcccttctg gtgtcaccga tttctaaggc 360
aagtgtcat cagagagctg gtcgtgctgg acgaacacaa acccggaag tgttttaggc 420

tatacacg

428

<210> 38752
<211> 261
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H5

<400> 38752

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ccccctgcc caacagcttg aatacgtgt ccatacttcc gattccgagc attaagcttg 120
acccccagct tcagatgacc aggactacca cgtccagcgc gaggaataat aatggctctc 180
tcgggcttat cctgtgcccc aaataccaga tgttcttccc gctttggatc caccactact 240
gtgcctctta cacgccgttt c 261

<210> 38753
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H6

<400> 38753

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ttgttagttg gagccgaaga tacagttgtt tttggttgcg actttgctag atgtctctct 120
atatactgcg actgatatcc cgtgtacttt tgaagtgatg cgtatattga catctggaat 180
aacaatgcct ttcaatttca ttatctcaat aatggccctt cctgtgc 227

<210> 38754
<211> 246
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H7

<400> 38754

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tctcgatttg gccaaacttc tggcattcaa cttttcaacc aggttccaac ttttttgggg 120

ggcaaaggac aaggcccaat atatcccggt tcaatatttc aaaaatggaa caattgggaa 180
 agggataagc ttttgtttgt actttaaggc tttctgatgg ttacttgaaa agagctttca 240
 cattca 246

<210> 38755
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-H8

<400> 38755

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 ccgcgacaat attgataata tacagattgt attcagggaa gactttggta ctgaagggcg 120
 tggaggatat tttgaccaat atggaatcat tcgtgatatc attcagaatc atttactgca 180
 ggtttttgtgt ttggttgcaa tggaaaagcc tgtctccctt aagcctgagc acatcagaga 240
 tgagaaagtc aaggttctgc aatctgtgaa ccctattatg cctgaagagg tagtccttgg 300
 gcaatacgat ggctacaagg atgaccctac agtgccagat gactcgaata ccccaacttt 360
 tgcattctgct gttcttcggg tacacaatga aaagatgcgg aagggtgttc ctttcattc 419

<210> 38756
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-019-Q1-K1-A1

<400> 38756

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 cgacctccca ccccatggcg gccgtcgccg gttggcgctcc gaatagatat tgctatgtca 120
 aaatgcctcc gatacccgat acacatagtt ttgatcaaga ggaactccgt agaatcggac 180
 ggtaagtga gccccggaca ctccaagccc gccctgcttt agcccgaaga gccctcagct 240
 aaatcagggg acacgtaccg caggtagaac gtaggctata ctccccccc cggggcgggc 300
 aggcaggaaa gcgtcgctcc gtccatcgcg cggtcgcaa agttagaacg caagacatac 360
 ggggtggtagt ccatgccagg acagaccgag ttagctccat tacctcccc gaaggaaacg 420

taccgcgtact cgacgc

436

<210> 38757
<211> 436
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-F8

<400> 38757

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caagcggacc gcaccggagg ggcgaacgg cgcgggcgcc cccaagcgcg cgagagaatc 180
ggagacaact ggtgtaggaa gcaaatccaa gccgtgcacc aaatttttca gactgcggg 240
ttgccccctt ggtgcaagtt gccattttct ccataacttc ccgggtggct accaggccgt 300
ttcaaagatg accaacttgg gtggaccgcc tgttcgggt ccaccaggaa gaatgcctat 360
gggacctggt ggtcctgatg ggccaccttc acctgctgtg aagactcgca tgtgtaacaa 420
ggtttnaacc aacct 436

<210> 38758
<211> 394
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-D7

<400> 38758

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ccaagtctga gggggttgag ttactgtga aagatggcta cttttgtcct gccctggcca 120
aagctgtcaa aaccatgaaa aaggcagaga aggtgctcct tacagtaaag ccacaatatg 180
gatttggtga gaagggtaga ccagcagctg gagaggaagg tgctgtgccg ccaaatgctt 240
cgctgctcat tgaccttgag ttgatttcat ggaagactgt cacagaaatt ggggatgata 300
agaaaatcct taagaaggtt ctcaaggagg gagaaggtta tgagcgtgcc aacgagggtg 360
cttgtgttga agtcaaaatt atcggaaaag cttc 394

<210> 38759
 <211> 204
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-018-Q1-K1-D8

 <400> 38759

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 gtaactttca taggggtgcg ggcacattca aagactgcta cctcctctat cgctcttagc 120
 taacactgac tgaaccagtc caacttctca taatgctact cctctcatgg aatccacact 180
 atgaatatgc tgagatagct atac 204

<210> 38760
 <211> 351
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-018-Q1-K1-E1

 <400> 38760

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 caacggtggg cccatccttc cgccgccac cgagatgggc cgcgaggagg gattcctgct 180
 ccgcgagtgg cgccgacaaa atgctattca ccttgaggaa aaagagaaga aggagaagga 240
 gctgaggagc caaatcatcg ttgatgctga agagttaaag aaagcttttg ttgagaagag 300
 aaagctcaat gctgagacaa gcaagggccaa aaaccgtgac agggagaagc t 351

<210> 38761
 <211> 391
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-018-Q1-K1-E2

 <400> 38761

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 aagatccttt tgaccaggat gactgggttc actatgctaa gatgactgaa gaaattggag 120

agcaagtgca gattgttggg gatgaccttc tgcgcaccaa cccactagg gttgctaagg 180
ctatcaagga gaaatcatgc aatgcccttc tgctcaagg taaccaaatac ggatctgtga 240
ctgagagtat tgaggctgtg aagatgtcaa aacgtgcggg ctgggggtgtg atgactagtc 300
ataggagtgg tgagactgag gacactttca ttgctgatct ggcagttggg ttgtccacgg 360
gtcagattaa gactggagca ccctgcagat c 391

<210> 38762
<211> 342
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-E3

<400> 38762

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ggccgcccgc cgcaaaccac tccatttcgc ccgcatttcc ctgcgtgtcc cagctcaccg 120
gtcggtcggg tgctggggct cgcggctcct ctcttcctgg ggctggaag ggacggtgaa 180
ggatgcatgc cgcgaccagg agcgtctctt gcacggcgc gcagccgtcc gtgctcatcc 240
gggtgcggcgg tgggtgcgtg tccgcttcgc ccggcggcct cggaggaggg ggatgcaagg 300
tccgggtcgt cgcctgtgtg cgggtgtgtg cacaggagaa gc 342

<210> 38763
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-E4

<400> 38763

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cggcgcagca ggcgtcatc gacgtgacc tgcggaacct cgccgtcgcc gcgcgaaagc 180
tcgccaacca cgccttcgtc ctggcggcgg ggttgggggt cggcacttct ttcctcaagt 240
ggctggcctt cctcgccgca gtgtatctct tgatattgga ccgcacgaac tggaagacca 300
acatgctgac agctctcttg gttccttaca ttttcttcac tctgcctaata gtgctgcttt 360

ctatgatcag agganagggtg ggggaaatgg attgccgatt atttgcttgg tattctgcga 420
cta 423

<210> 38764
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-E5

<400> 38764

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ggagttgagc aggatgggtca aggttactca tgcgatgaag aggctgtgaa aaagccagtt 120
tggatggata gccacgatgc ccaaggttca gatatctctg ctgccactat tgcttctgtg 180
ggagatggct ctaatggttt aagcatgtca cagcctaata ccaactgaacc tactggttgt 240
cctcttacca atgggggttat agacaaagac atcagctctt cactagatga aataagatct 300
gagaagactg acgatatttt 320

<210> 38765
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-E7

<400> 38765

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ctagcagcta gtccagttaa gtttcagaca cacatgggga gcattggcag aagcacggcc 120
aactgcgcca ccgtgccgca accgccggcg tcgacaggga agctcatcac gatcctgagc 180
atcgatggcg gcggcattcg cggccttata ccggcgacca tcattgcgta cctcgaggcc 240
aagctccagg agctggacgg cccggacgct cggatcgccg actacttcga cgtgattgcc 300
gggacgagca ccggcgccct gctcgcgtcg atgctggcgg cgccggacga gaacaaccgg 360
ncgctgttcg ccgccaagga cctnaccacg ttctacctcg agaacggccc aaagatcttc 420
nccccccaca gaaa 434

<210> 38766
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-018-Q1-K1-E8

 <400> 38766

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 agaggcgatc gctgccctca aggagaggaa ggggtcgagc tcggtggcca tcagcaagta 120
 cgtcgagggg aagcatggcg gcaagctccc caccaacttc cgcaagcagc tcaactgtgca 180
 gctgaagaag ctgctgcccg ccggcaagct gacgaggggtg aagaactcct tcaagctgcc 240
 ggccaccgac gccaagccca aggccgtcaa gcccaaggca cccaaggccg cgcccaagcc 300
 caagccctcg ccgaaggcga aggcccaagac cgctgcgaag cccaaggcgg cgtcgcccaa 360
 acccaaggcc aaggccaagg cccaagcctg tcg 393

<210> 38767
 <211> 390
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-018-Q1-K1-F1

 <400> 38767

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 aaagtcaacg tcattggaga tgtcatcctc ttcttgggaa aactctgtgt gagectattc 120
 tgtgcgcttt tcgcctttct gatgttagac acccacaagt acaagtccgc acacaacaag 180
 atatcctctc cagttatccc tgtcctggta acatgggccc tcggctacgt agtcgcgaag 240
 cttttctttg cggtgggtga gatgtcgatc gacaccataa tcctctcggt ctgccaggac 300
 gccgaggagc accaggggaa cgcgagtat gcgccncag ctctgatgga aactctggac 360
 gaacaaggcg aactgcagag actaactcaa 390

<210> 38768
 <211> 418
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-F2

<400> 38768

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tccaggagat tacttcaaca taataacatt taatgatgag cttcactcat tctcatcgcg 120
tttggagcaa gtaaatgaaa aaacaattgg aaacgctatt gaatggatga acttaaactt 180
tgtcgctcag ggtggcacta acatcatgca tcctttgagt gaggcaatga ctttgctgtc 240
aacttctcac gatgcgcttc cacaaatcta ttttgttact gatgggtcag ttgatgatga 300
acggaatatc tgccatacat tgaaaactca acttattaaa agtggatcta agtctcctcg 360
gatttctact tttgggctag gttcatattg caaccactat ttcttgagga tgttggca 418

<210> 38769

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-F4

<400> 38769

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accgctggac cttcgatgat gtccaggtga acgacatctc gctgaacgac tacctcgctg 180
tgaacgcgac gaagcacgcg atgtacctgc cgcacaccgc ggggcgctac tccaagaagc 240
ggttccgcaa ggcgagtgct ccgatcgctg agcgccctac aaactccctc atgatgcacg 300
ggcgcaacaa cggcaagaag gtcattgctg tccgcatcat caagcatacc ctggagatca 360
ttcacctgct caccgatgcc aacccccatc cagggtcgct gttcgacgcg atc 413

<210> 38770

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-F5

<400> 38770

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cgagcagcag aatttgctga gggccgctgg ttgctgcgag aggtccgggc cttcgtggga 180
tcttgaaaat tgaatgttct aatggagtcc aagggtggca agaagaagtc tagcagtagt 240
cgttcctccc tgatgtacga agctcccctt ggctacagca tcgaggatat ccgccctgca 300
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ctctggtgtc atcccca 377

<210> 38771
<211> 411
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-018-Q1-K1-F6
<400> 38771

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tattacgtg gctattctta tccctacggc gcctatcacc aacctgcccc gccacgtac 180
tctccgccc tggcgcggcg ctcgatcatc tactactacc ccgtccctgc cgccgcgtcg 240
tccaccgccc cgagctacga cccctattcg gggtaccagc actacagtca cccggaggga 300
ggaggctcgg cgggggctgg cctggtgggc tgctacagca ccgtcggcga ggcgttgacg 360
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<210> 38772
<211> 380
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-018-Q1-K1-F7
<400> 38772

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acgcatgtca gcacgtcctt ggactacatg ctagtaggat caaaggctcg ctatggtgtt 180
ccaaaacatg gaaagaagaa gaagtttatg gaagtaagca aacattatga tgcaggccaa 240

tctgacaaga tttctgaggg caattcatct aacagattcg tgaaacatct gatgccacaa 300
 ttgccaaaggc cacgtgaaaa tgcttccaaa gttgacccta ttagaggaaa gaaagtaggt 360
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<210> 38773

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-D6

<400> 38773

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 ccagagacgg cggatgtcgc gccgacggca ggagggacct ataatgtact gcagccgcac 180
 tatttttgag gatgctactc ctgaactggg tagagatttc ttctgggatg gtgattttcg 240
 tctaaagtgg gatcccatgc ttgcatattg caaatctttg gatgagttcc ctcagaatgg 300
 agcaacaatt gtccactgga taaaaaagtt cccgttcttt tgcagtgacc gtgaatacat 360
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<210> 38774

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-B2

<400> 38774

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 tctgatccct atgtcatatc atgattaaac ataaataatg gtaacctaat tacgatcact 180
 tgatgtatgt tagataccta tagatgcctt tgtggccttag tagctgggca ttgatgtggg 240
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<210> 38775
 <211> 373
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-018-Q1-K1-B3

<400> 38775

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gaccaatggc tcgtactaag caaactgctc gcaagtccac tggagggaag gctcctagga 180
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ctcatcgta cgcacctgga actgttgctc ttogtgaaat ccgcaagtat cagaagagca 300
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<210> 38776
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-B4

<400> 38776

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agcctgctgc tgatgc 376
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<210> 38777
 <211> 435
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 <213> Zea mays

<223> unsure at all n locations
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<400> 38777

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gagtagcaag taggcactat aggcactagg aagtagctaa agcagtcata accatggggtt 180
cgctgccgcc ggtggacggg cagagacgcc cccacacgt tgtgatgac ccgtaccggg 240
cgcagggcca catcacgccg atgctgcagt ttgccaagct cctccatact cgcgggttcc 300
acgtcacctt cgtcaacaac gagttcaatc atcgacgcca cctgcgtgcg cgagggccca 360
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ttgaaagcgg acgcc 435

<210> 38778
<211> 335
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-B6

<400> 38778

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aatgatctaa agcatgcata accgtgtgat agctgatgac agtcgacggg tggtgacgtt 180
gctgatacat cgtgatgaac cagttcccgg cgcattggcca catcacgccg atgctgcagt 240
taggcaagca cgtcagtctc tgagcctgct ggtgatcttg gtccacagcg agataaatta 300
tcgactgcac ctgctggtgc tagggctgaa cgagc 335

<210> 38779
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-B7

<400> 38779

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cataaccatt ggcaagctga ctgcaggtga cgctcataga caccaactag acatcaagac 180
tattccatac cctgcacccg gacccatcac tccaatgctg cctcatgcc agetttcttca 240
tact 244

<210> 38780
<211> 435
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-018-Q1-K1-B8
<400> 38780

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ggtttaacaa agggttgctt cctaccttaa accttaacce tatgatcttt ctttttgccc 180
tggaaaaaaa atatggaggg ggttaaagcc caaaaatggc ggacttgta cagactatgc 240
tgacttctgt tttaagacct acggcgatcg cgtaaagcac tggtttacat tcaatgagcc 300
aaggatagta gcgctacttg gctatgacac agggcaaat cctcctcaa ggtgcaccag 360
atgcgctgct ggtgggaatt cagcaaccga accttacata gttgctcata attttctctt 420
ttggggtcac atgct 435

<210> 38781
<211> 216
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-018-Q1-K1-C1
<400> 38781

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gctgctggac ctgatggcag aggcgctgaa catccccggc ggcgcctgcc actcagcacg 120
agggactcga ccagccgag gcggccgcta ccggcaatgc gctagcttcc gtacccaaac 180
gtggggccat actactgctt ctgcacctgc cgtcga 216

<210> 38782
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-C2

<400> 38782

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gatgatctga gtgggcagca gaggccacag atgtctcgtg taagctccta caccggactc 180
agcagtacta gtccttttgg tccacttcgt cgtgggttcat ggtgcactcc gccaaaggctg 240
tttcttgagg atcagtttga tgttattcca tcggaagctg cttcttcgca taattctgct 300
acgaagagga aagaagacca ggggaagagg aagaagggt caagggccgt gaaaataagc 360
ccatgggcat tagctcgtct taacgctgaa gaagtttcga gggttgctgc aaaagca 417

<210> 38783
<211> 170
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-C3

<400> 38783

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gagcagatgt tgtagaacag gcttttgtat tttgctgccg gttacatgtt 170

<210> 38784
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-C4

<400> 38784

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agcatcatca cccggcccat gttccagagc atgctgagcc accgcggcga cagcgggtgc 180

cagggcgccct tctacaccta cgacgccttc atcgaggccg ccagcaagtt ccccggttc 240
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tcccacgaaa ccaccggtgg atgggcgact gctccggatg gaccgtttgc ctggggatac 360
tgccgggtga aggaacagaa acagacggac ccaccctact atggacgagg acccata 417

<210> 38785

<211> 392

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-C6

<400> 38785

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attgtataca atgcagtttt gaatgcttgt gtgcaacaaa agcaatggga aggggcattt 180
tgggtactgc aacagttgaa agagaagaac atttgtccaa caaattcaac atatggtctt 240
gttatggagg taatgcttgt ctgtggaaag tacaatttgg tttatgagtt cttcaataag 300
gtggataaat catcaatacc tgggtgctctg aactataaag ttcttggtaa tgcactttgg 360
agagaaggaa agattgatga agcaatgatg gc 392

<210> 38786

<211> 392

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-018-Q1-K1-C7

<400> 38786

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ggctactgaa gacatatgtt ttgtttacac aaatgaaata gaaatctgaa aaaaaaatgt 120
tctgtgaaca ggttaccatt agcctggaac tgcgacaaaa taagaataat cgaaaccaat 180
aaagcctagc gttttgttgt tctactcggc cattttctgt tcctaaactt gtaattttgc 240
tggaatattg tacagggcat ctgatgcaag gtgcaaaaac tgggtgttgg tctgcggttg 300

ctttcaaaga gttgtgtgcc ggttgcttgc acatcttta ctctgggtct tgaaagcana 360
tcagaagtat ttatggttta aggaaatatg ca 392

<210> 38787
<211> 382
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-C8

<400> 38787

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cgtggtacaa tgatgactgg tgagcgacat tcatagctgg tgcaacacta tgttccttta 120
ccggaggatc ttccggcagat aaatttgggc ggacaagaac attcatcctg gatgcagccc 180
cactggctgt aggtgcattc ttgagcgcaa cagctcaaga tatccgcacc atgattattg 240
gtcggttgct tgctggaatc gggattggga tctgatctgc acttgtaccc ctttacatat 300
ctgagatatc accaactgaa attctgggaa cacttgggtc tgttaatcaa ctctttatct 360
gcattggaat tcttgcaact tt 382

<210> 38788
<211> 275
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-D1

<400> 38788

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caactggatt gtaggaatac acatagcttt ctccgatgcg gacattcatg agttgggttt 180
caacgttgta tgcgaggtgt acaacctgat gtagcacatg gtctactgcc tctagtaaaa 240
catctagggc acattgagcg gacacctgaa ctaga 275

<210> 38789
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-D2

<400> 38789

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accgggggat ctttggcaga taaatttggg cggacaagaa cattcatcct ggatgcagcc 180
ccactggctg taggtgcatt cttgagcgca acagctcaag atatccgcac catgattatt 240
ggtcggttgc ttgctggaat tggatttggg atctcatctg cacttgtacc cctttacata 300
tctgagatat caccaactga aattcgtgga acacttgggt ctggtaatca actttttatc 360
tgcattggaa ttcttgcagc tttggtagct ggattggc 398

<210> 38790

<211> 61

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-D4

<400> 38790

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a 61

<210> 38791

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-018-Q1-K1-D5

<400> 38791

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ggcatcggcg aggccatcgt tcgcctcttc atggagcacg gcgccaaggt ctgcatcgcg 180
gacatccagg atgaggccgg gcagcagctg cgcgacgccc tgggaggtga cgcgcagggc 240
gccatgttcg tccactgcga cgtgacgtcg gaggaggacg tgagccgcgc cgtggacgct 300
gcggcggagc ggttcggcgc gctggacgtg atggtgaata acgccggcgt gacgggcacc 360

aaggtgacgg acatncgnac cgtggtactt cgcgggaggc gcgcaggtg etc 413

<210> 38792

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-H10

<400> 38792

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gggggagccg atccccgactt ggtcggtgct gatggcgggc tgtaagcaca tcgcggtccg 120

gtgcctcccg gagaacgttg ccttcctcaa ctgcaagaag aaggacccta acccctagaa 180

gtgcctcgag aagggccgac aggtcacacg ctgcgtcctt agcctgttga aagaacttca 240

ccaatagtgt ccctatgaaa tgtgtggata tgctggttgc atgtatgact acactaacga 300

attcgacttc tg 312

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<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 38793

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atggaatctg agaatttggc aaggtctacc aaaggggtcg tagaaattta aattccaagg 180

gatagtgatc ttctggtgca tctagcagca caagttggga acgctctaac tgagcgccat 240

gcatttatca acgagttcat taaatttgnt gatgatgtag aaatttattt gcactacatc 300

ctcaacatat accacgtgtt aggcaagatg gtcgtgcatc atacttcttc catagaagtt 360

ttgagcccta catcaatgag aatgatgtaa ataactgctg gaagaaaatt ggaagtacta 420

gatccatcat cctgnatgga acac 444

<210> 38794

<211> 401
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-017-Q1-K1-H12

 <400> 38794

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 ccggcggtccg gatccgggac cgaagatgac ggagtccttg gtgcggaaca agccggggat 180
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 cgtgcgcttc gcccgccgga tccccacctc agggcccagc gccaccgtca tcttactcac 300
 caccttcggt gctttcgcat atggcatgta ccaggtcggt cagggaaca aggtccgtcg 360
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<210> 38795
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-017-Q1-K1-H2

 <400> 38795

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 catgtccata atatactacc acattacta catcattatt acacacacta tcatatcat 180
 acaatcttat actttacctc attatgccca ccattccatc ctactaaatc cacaccta 238

<210> 38796
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-017-Q1-K1-H3

 <400> 38796

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catagtcggc aaccaatagg agcgtaaaac tggagctagg gattgaagct gttgcaggta 180
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tttcatggcc gtgattcccc cttttccagt caaagccatc caagccgcaa ttacttcagg 420
gacaggggtgt tcactg 436

<210> 38797
<211> 306
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-H4

<400> 38797

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gccgcggcgt ccgtggcgcg gaccttcttc gactgcgagc agctcctgct gcacaatggc 180
gacaaccact acctgctgac cacggagcac gccgacacgc tcccctacag catcaatcta 240
tccacgcact aagtcacagg ccgtttcttc aacgggctca acatgcacga catcgtcagc 300
gagcac 306

<210> 38798
<211> 194
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-H5

<400> 38798

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ttggtgcaca ttaaaataag gcctatcctt gcgaagaaaa ttatccatga tacttattaa 120
gatattcccc atcagaattg cgccacatac ggctcgccatt attacacacg ctattactat 180
cataatatct attc 194

<210> 38799

<211> 375
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-017-Q1-K1-H6

 <400> 38799

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tgtccatcat gaactccttc atcaacgaca tcttcgagaa gctggcggcg gaggcggcca  180
agctggcgcg gtacaacaag aagcctacca ttacgtcccg cgagatccag accttcgtcc  240
ggctcgctct ccccgcgag ctcgccaagc acgccgtctc cgagggcacc aaagccgtca  300
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agtgcaatag tagta                                                         375
  
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<210> 38800
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-017-Q1-K1-H7

 <400> 38800

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aaggaagcta aggataagga ggtccatcaa agtccttgca ataagcaaca aggttgcaga  180
cattccagct gatgaattct catggaggaa gtatgggcag aagccaatta aaggatcccc  240
acatcctagg ggttattaca agtgtagcag tgtgagaggc tgccccgcga ggaagcatgt  300
cgagaggtgc gtggacgacc cctcgatgct gattgttacc tatgaagggt accacaacca  360
caaccgagtt ctagcccagc cagcctgatc tttcaggcta tcaattcaag atcggttcta  420
cagtcaccct                                                         430
  
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<210> 38801
 <211> 305
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-H8

<400> 38801

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attttctctca gttcataact gaaattgaaa gttttacatt atactgtaag aggaaaagga 180
gagataaggt ttatggcaac aatgttgaga tccaggcatt tgcagagatg tacaatcgta 240
ccattcacat atattcctac agtacagagc ccattaatat ttttcaagga agctataaca 300
cagac 305

<210> 38802

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-017-Q1-K1-H9

<400> 38802

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gtccatgccc agcccacccg atttttctca aatgccaccg cttgttccaa tccaacggac 120
cagatcgctc caactaacc cccacacaaa accctactca gtcacaccta tatagcctat 180
tgccctttcg gcgcgcctcc attcgcacca ccgacgcgcc gtccaaaccc tagccgacgt 240
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gggcgacatg gtaaccgacg cccccggcat cgccttaccg nccgtcttcg gggcgccgat 360
ccgccccgac gtggtcaggt tcaccacaaa gctgctgtcc tgcaacaagc gccagcccta 420
cgcagtc 427

<210> 38803

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-A1

<400> 38803

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cccctcgagg ccaaccccca cgtcataaac cagttcatgt ggggactggg ggtccccgag 180
gacgtggggg tctgcgacgt gtacggcctc gatgacgagt tgctcgccat ggtgccccag 240
ccggtgctcg cggctcctact tctctacccc caggaccgga gcaaggagtc ccaagcttca 300
gtacctcgt cgggtggagac caaggagccc agcaagaacg tatatttcac aaagcaaact 360
gttgggaatg cctgtggcac agttgggtatt attcatgcac tggggaaatg ctac 414

<210> 38804

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-A2

<400> 38804

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gccaagagga gatggccatt tggaaagtcc aagcactcgg agccttccat atcgacgggtg 120
ccaggcactg ctccagcagt agctccgttg ccatcaccac cagcaactca gccccactct 180
ctggagatca aagatgtcaa tccagttgaa acagacagtg agcagaacaa gcatgcctac 240
tccgttgccg ttgcgtctgc tgctcgtgct gaagctgcag cagttgctgc ccaggctgct 300
gcggaagttg tccgcctcac agcagttacc acggctgcac caaagatgcc tggttagttcg 360
aggaagaac ttgccgccac caagat 386

<210> 38805

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-A3

<400> 38805

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ggctacaacc attggcaatg cgtagagatt cagagatact catgttagga aagatgctga 120
tggtgctgga acatgtgacc gagatataca tcctagagct gaacctgagc aatacttgac 180

atccgatgat gcagctgaac tcgcctattc tggagcgcgcat gaattgcatg cactatcgat 240
gctggacagct agagaaagcg atgacacctgt gagggctaag aattc 285

<210> 38806
<211> 420
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-018-Q1-K1-A4

<400> 38806

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ccatcgtctt ccaggagctg gagcaggaag ccaagtgggt cgcggccgtg ctgtcggggc 120
gggagcagct gccaaagcag gaggacatga tggcgccgtg gaggagccac taccagctaa 180
tggaggaggc cgggaggccg aagcgccaca cgcacgcact ggcagctcag tgggtaagcc 240
aacgctgaca acgtgtgact gtgtgtgtgt gtgtgtgtgt taccggcccg acgtgcagc 300
ctgaaactgt gtgcgttcgg accaggcgga gcacatgaac tggctcgcgg accaggtcgg 360
cgagcctnca gtggagccgt ggaagtgcga gatgttcgat aagggtacttg cgagcatctt 420

<210> 38807
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-A5

<400> 38807

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ccagcccca a tctctcgcat ccctgtcaac catggcgggc tcagcaggcg gaggcgcggt 120
gcgcgcgctg tcccagaagg agcaggacat acagatgatg ctgcgggccg acgtccacct 180
cggcaccaag aactgcgatt tccagatgga gcggtatgtc tttaagcgtc gcaccgacgg 240
catctacatc atcaacctgg gcaagacatg ggataagctc cagctcgcgg cg 292

<210> 38808
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-H1

<400> 38808

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tgtattattg ctttcaagaa taaggacaac cttggaggag ataagcttgt cactgatgaa 120
gatattgtcc gtcagcattg ggccacatat ggtcgccatt attacacacg ctatgactat 180
gagaatgtcg atgctggggc tgctaaggag ctgatggcaa acctagtaag catgcagtca 240
tcactttctg atgttaacaa gttgatcaag gagatccggt ctgatgtttc tgaagtagtt 300
gcagctgacg agtttgagta caaggatcca gttgatggct ctgtgtccaa gcaccagggc 360
atccgatacc tcttcggaga tggttcacga ctggtgttcc gtcta 405

<210> 38809

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-A6

<400> 38809

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tcttcttcga catgaccgtc ggcgggcgccc cggcgggcg gatcgtgatg gagctgtacg 120
ccaacgaggt gcccaagacc gcggagaact tccgcgcgt gtgcacgggc gagaagggcg 180
tgggcaagtc ccggaagccg ctccaatata agggcttcac cttccaccgc gtcatacccg 240
agttcatgtt ccatggctgc gact 264

<210> 38810

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-A7

<400> 38810

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gcgacgggga taagtacgtc ttccagatga cgacggcggc atggccgcgg ccacgcttcc 120
tcgtcctccc ccagcctgga ttctccgct cggctctgcca cggcctctgc tcccgtgtc 180

tctttctgctt cctgctgctc ctgccttcg cctgcagctc cagctccggg cgggtggtgg 240
 tcactagctt gcctggcttc gacggcgacc tcccctttca cctcgaaaca gggtagctgg 300
 aagtggagga agacgccggc gtggagctct tctactact 339

<210> 38811
 <211> 429
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-017-Q1-K1-F5
 <400> 38811

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 gggaggggatg cctgcatcgc cgccacgggtg tcgccggcgt tccgcgcgcg gcccgactcc 120
 gacaccgtgt ggtcacgctt cctcccggct gacctcgccc cgctcgtcta cccgacgcct 180
 gcgccaagat ccaagaagga gctcttcctt cgctctctg aaacccatgc cctcgttgaa 240
 gatggcctca tgagcgcgtg gctggacacg gagaccggcg ccaagtccta tatgattgcg 300
 gccagggcta tggtattat ctgggtcgac acgccggact actggcgctt gatagtgcgc 360
 gaagactcaa ggatgctgtc aggtgacacg cgctatgcag nctacctggt attcaagatg 420
 gccgatgac 429

<210> 38812
 <211> 440
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-017-Q1-K1-F6
 <400> 38812

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 ggtgcatggc aatgtgattg gagcagtgga aacttgttta gagtgcgtttc atcggtatca 120
 caagtatcta aatttttcgc atcctactat cagctccaag attgateccac atacttgtgg 180
 atgggctttt ggaatgaaca tttttgactt gatagcttgg aggaaggcaa acgccacatc 240
 attgtatcat tattggcaag agcaaaattc tgacctattg ctctggagaa caggaaactct 300

tcttgcaagc cttttgacat tttatggcct gatggagccc ctagaccgca gatggcatgt 360
 cttgggtctc gggatatgat tagacataga tgatcgtctg attgagagtg cttgctgtgt 420
 gcactataat ggaaacatga 440

<210> 38813
 <211> 435
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-F7

<400> 38813

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 tggtttgtag ctggctgcat gtcctcgcg cgagccgtgg tgatggagca caggaagaag 120
 tcgaattatc ttgttgccct cgtcttggct tcgctcttgc tctccgccat ggcaggaggg 180
 catcggaaga agcttctgaa caaagacgac gcatcagaat caatggagct atcggaatcc 240
 acgcagcagc tgcaggaaga cgacgaaatg gctgtggtgg tccacgagag aattctcagg 300
 caggcgaaga tgaacgacta cgggagctac gactcttcgc cgaccatggc taagcctcac 360
 ttcaaggaca tacctaacta gccagccac tatatacatt gagaggtcga tatatgttgc 420
 ttgctagtcg agtcg 435

<210> 38814
 <211> 355
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-F8

<400> 38814

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 gctgaagagg aggaggagga ggaggagaag cagcagcgca gccggaggag ggagagcgaa 120
 gatgcgccgc gtcgcgctgt tgctcgtcgc cgacgtgtgc gcgctggcgg cgccggctgc 180
 cgcggtcgtc actgacggtc ttctcccgaa cggcaacttc gaggatggcc cgcccaagtc 240
 ggcgctggtg aacggcacgg cgggtgtcggg cgccacgcc atcccgcggt gggagacgtt 300
 cggcttcgtg gagtacatcg agtcagggca caagcatggg gacatgctgc tgggtg 355

<210> 38815
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-017-Q1-K1-F9

 <400> 38815

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 gctgagttct tggataacac tgaacttttt ttttggataa atatccttcc ctcaagtgttg 120
 ctataggcag tttctcaaaa gcatcgctta gttttgcttg taccttacga tagacaacga 180
 ctattgtgca atcaggtcta aggttcaaac gagtctcctg gtctgttaga tcatgatcca 240
 accgtatata atatttaaca cttagaccct tacatcacca actcatgaag ctttataaaa 300
 aacctaacaa accacagtca tatctacccc taaggtctaa ttgcacctaa ggatcaagag 360
 actcgcttgc aacttgcac ctaaggtcta attgcacaac aatcggtgcc ccttactgca 420
 ttacacaaat gacattttat ttttaccctt 450

<210> 38816
 <211> 217
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-017-Q1-K1-G10

 <400> 38816

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 ttcgtggggt tctacaactg ctggaacaag ttcgtgggcg accacacgac gcacgcgttc 120
 gtgttcaccg acaaggcaaa ggactcgagc cgtgtgtgtg tgtccttccg tgtcacggag 180
 cccttcaaca tgctgtactg gtccacggac ttaaacc 217

<210> 38817
 <211> 161
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-017-Q1-K1-G11

 <400> 38817

gttgtcttaa catgtatgtt tctcgtcttt caaaataata ataagatgtg agtctgatag 60
 aaaactagga tgtgaaaatt ttatatctat aataatgtat gctattcggt ttttgtgcag 120
 ttattgtaca ttaccatttt atcgaatttg tgtgtcattg c 161

<210> 38818

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G12

<400> 38818

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 cggggacatt tgctcatcat actgcagctg atgttatcat tataatcgcg gaatcagggc 120
 agatatccaa tgacctgaaa ccaagggttaa aacatgtcac atgcataaac agcatctgac 180
 gataccattt gcctagcttc ttgagacggc tatgccagac atgatgccct gctgaactat 240
 gacttgacct 250

<210> 38819

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G2

<400> 38819

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 ctgcttgtct acgagttcat gtttcgagga agtctagaaa accacttatt ccgaaagaca 180
 gctacgccat tgccctgggg tactaggatg tcaatcgcg tgggagccgc taaagggctc 240
 gcttgccctc acaacgctca aaggcccgtc atctacagag atttcaagac atcaaacatt 300
 ctgctggact ccgattatac tgccaaactg tctgactttg gcctcgcaaa agatggccct 360
 gaaggtgatc agacgcatgt gtcgacacgg gtgatgggaa cctacgggtta tgcttgccct 420
 gaatatgtga tg 432

<210> 38820

<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G3

<400> 38820

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cggctctacag taagtgatga tgagcatctg gcagggttata agctcccaaa gttggaaaag 120
agggtgaatt acattcagat tgtgcatcgt catgaagatc tggaccatgg aaacaataac 180
agcttgacat cttggaaacc gtacggtgtt cctcttcttg cacaaatttc tcgcaatgaa 240
attgtgacgg gttttgatat ccatgagttg gtccataaaa tgcttgtgac cgtgctaagg 300
aatacggact ctctgcattt ggctgttcaa agatcttggt ccacaagaac tcatagttat 360
cataccgaca gcagcaaatt tcagcttctg gtgggttgatg atagcaacac agtcatttga 420
aatccaatg 430

<210> 38821
<211> 294
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G4

<400> 38821

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ggcatgcgg aactgctgcc ttgcccccg cgcctttctc ttccatgttt gctgctacaa 120
tcttgttggtt gggcattgca gtgcacggtg cacacttggt tagcccgct ccgagaattc 180
tcctgcctct gcatctggtc agttcaaaaa tgatttgcac gttggctatg ttgtgtaagc 240
tctatttatg gtggtctcgc tgagacgggt atttggcttc gcagttatct agct 294

<210> 38822
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G5

<400> 38822

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 tggacatgca gatggggctg gtgcgccgca acttcgccgg caacgtcacc ggctactacc 120
 tgtgcttgca aggcggggcg cacgacgaga tccacttcga ggtcctgggc aacgtgttcg 180
 gcaagcccta cacgctggac aacaacctgg tcacccaggg gcataggcca ccggaggagc 240
 aagttcagct tttggttcaa cccaacgtcg acttgacaaa ctacttcac atctgaaccc 300
 cagcacgtca tcttcacgtg ggacgacatg ctcatcaggt acttcgcaa cctgtatagc 360
 aaggtggtga cgttcccaa gagccagccg atgcggctct actccagcct gtggaacg 418

<210> 38823
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-017-Q1-K1-G6
 <400> 38823

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 ggtgaacccg aacacgatag ccactgtacg agctccgaag aagaaagaga agaagaccaa 120
 ggaggagatt gaggaagaga tggcagatgc cgtggaggcg gccagaaca ctgagcgcaa 180
 gaagaagacc aagggcagga gcaaaccgag caagcgagcc aagaagaaag aggaagacgt 240
 tttcaaggcc aagaggccct tcctggagca atctgataag gtggatgggc gacctgacaa 300
 gaagcagcgg ataggtgaac tcccaaaggc cttgcaaagg ttgccaaga aaccacaatc 360
 ataatcgctg tcgttaacac agggttggga tttcacattg gtatttcaa tatgtagaat 420
 ttccgcgtga gcacagaaga at 442

<210> 38824
 <211> 494
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-017-Q1-K1-G7
 <400> 38824

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 tgnncttgca acaaatgctg tgnnctgctg tatgctcgag tgagactcta taggaggggg 120

tttctctgcc catgtgatat gtagtcacgg tgtgcacccg aactattggt gtccacttgc 180
 tcgaagatTTT tacctctcca tgtaggaagt cacggagagc tcgactgttt cggccatgtc 240
 cggaaccttc tacagctcag caaanattgg ctcgttggaa aagggcacgg ctcaaaggcc 300
 gtgatgaagt cttatgtcaa aacagttgtc tgactacata attgcagcac ttgttgaagc 360
 actgcacaag gagccagaaa cagaaatgtg ctcatccatg ctggattctt taaacgagtg 420
 tatgcagctt tcgggtcttt tgctcgatga agcccaagta cgagctatca tagatgagat 480
 taaaaacgtc atta 494

<210> 38825
 <211> 237
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-017-Q1-K1-G8
 <400> 38825

gccaaaatta aaacctgtg tctaacagtt atgtagtcta ggctccatta atcgaacgga 60
 ggccgtaatt tcttgaaaa aaacaaaaaa aaaaaaaaaa aaaaaaaaaa caaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaacaaaaaa taaaaaaaaa caaataaaaa aaaaaaaact 180
 gaaatatcaa aactaacaga aaaaaaata attagaaaga aaactaataa agaccaa 237

<210> 38826
 <211> 401
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-017-Q1-K1-F4
 <400> 38826

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 cgcgagggcg ttgatctgtc aaaggataga ttggccctgc aaaggcttcg tgaagctgct 120
 gaaaaggcaa aggttgaact ttcctcgact tctcagacag aaatcaatct gccattcata 180
 acagctgatg cttcaggggc aaaacatttg aacattacac tgacaaggtc gaaatttgaa 240
 tctcttgtag acaatctgat tgaacggact agagatccat gcaagaactg cttgaaagat 300

gccggaatat ctactaaaga ggtggatgaa gtacttcttg gtggtggaat gactaagggt 360
ccaaagggtgc angaggtagt ctctgaaatc ttcggaaaga g 401

<210> 38827

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G9

<400> 38827

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tcacccatcg ttcaggagct gatgcgccgc caagctttca gtactcccaa ctccaactgc 120
acctcaaatt cccaaagcgg cacctccacg ccgatcgaga gatcgagctc aggttccagc 180
aacgggtgtgg ggcgcgccaa gcggcgtagc agctggctcc gcagcatccg ctgcgtagct 240
ggctccttcg cgtcccactc acgtgaccgc cgcagcagcg acgagaagga cgcgtctcca 300
gagaaaggcg ggcaccactc cagctccacg acggatgaca gccaggacag tgttccacgc 360
catggccccg cccgtgtcaa ggtgcggcag tatgggaagt catataagga gtcagtggc 420
ctgtttatga cacaggagat ac 442

<210> 38828

<211> 353

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D9

<400> 38828

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ccgccggtgc tgcactcacg gtgctgctcg ccggetacct cctectgctc gtgccatagc 120
tgtcgcttag ctggttctag accctctgtc aagttgtgcc accagtaaga ttcgatgtgt 180
tgttgctctt tctagtacgt gacgcgacag acaatttgct gctgggtgtcc tccttgaagt 240
ccatgcactg ggtgatcact gtatgctatg ggtactagat gctagggcat gtgttaagct 300
aagctaaggc tatgggggtat cagtacccta cctgtcaaaa gacggcactc aag 353

<210> 38829

<211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-017-Q1-K1-E1

 <400> 38829

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 ggcgattatg agctagataa cggggaggaa aacatgagat ttactgaaga aacacgtcaa 120
 taatatgtag acctagcttc tgcagatata ctgaccacag caattaggtc gtaaataaac 180
 gtatcgattg aaggctcgac agagttagtc gcaccggatc taacatcact gtaatatgat 240
 aaagaccttg aactgctgat cagtgatctg actgtaattg acttggatga tctgaaggtc 300
 aacacagtgt atatagcata ttcagatgaa tcttcggtga tacagacgtt attgaaaatt 360
 gttagatcgt ccagtagcta ggaca 385

<210> 38830
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-017-Q1-K1-E11

 <400> 38830

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 gaaggattga catggatggg acttttaaata tcaaggtttc tggccgaaaa agcttatgga 120
 aggttgctcc tggtgacgct gagaggcttt cagcttttga gggttgagat tgggtccgac 180
 caaaaccaag tattgggagc agacctactt atgactggaa tagagttggg agaatacaaca 240
 ttgcagtagt ccatatcatt caggactctg gatacttggg gttagctggc tgattcagga 300
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 agcatggctg gttccatgct ggaatttc 388

<210> 38831
 <211> 431
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-017-Q1-K1-E12

<400> 38831

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acagcggcaa acccaaggtg ctttgatgca acctgtacat gtgtcccacc aacaaacaca 120

tgtttctcat catcctgcac cgatgcgtcc ttcattggca ggccatcagc cagctttgca 180

gcaccccttag gccagggaa ttcaacatac attacaacat gaaaaacata ttgggtttca 240

tgctcagtgg ccaacaatgt attccaacat tccttcccaa gcaccaccac agggattgtc 300

tgtgcactca tctgtttcct cacaatcagt ttaatcatac cagcaaggaa tgtcttcac 360

acaacagatg catttccaac cttgtcaggc atatacacia cagcatggta ctggcaatac 420

tggacaacat g 431

<210> 38832

<211> 127

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E2

<400> 38832

cccacgcgtt cgcgcacgcg taggcaaact tttgagactt tataacaacat gacctttaat 60

agcgaatttg agcaatatta tggggaataa aacattagat ttactcatca aacacaacat 120

taaaatg 127

<210> 38833

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E3

<400> 38833

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tgaagaaggg cgagggtgct cttgtcacia ttctctctga atatgcattt ggttcaactg 120

agtcaaagca ggatcttgct gttgttccac ctaacagcac agtaatatat gaagttgagc 180

ttatttcatt tgtgaagggtg cggacatgac tgatattcgt gtctgttcta aatcattgac 240

ctgtgtgcaa ctgcacatga ctgatattcg cgtctgttct aaatcattga cctgtgtgca 300

attgcaaaat tgatcaatat aatcttgtca cacaggacaa ggagtcgtgg gacttgaaca 360
atgaagagaa gattgaggct gctggtaaga agaaagagga agggaatgca ttgctcaaat 420
cgggcaaata tgctagagc 439

<210> 38834
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E4

<400> 38834

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gggtagatgc tgtaacgcatc gatattgcct tcctcggcct cggcgatgac gaagaccttg 120
ttgcactcct tcgaacgatg ctaatcagag gaagaacgcc ctgggtgccc agagggtacg 180
atccctgcac ggagaagtac tccacgaagt actacaactt acctgaggtg cagagagctc 240
tacacgcaa tgtaaccgga ataccgtatc cctgggtaac ctgcagtac ccagtgtatg 300
atTTTTGGAA agattcgccg aggtccatgc ttctatcta ccgtgaactc atcgccgcgg 360
gcataaggat atgggttttc agtggcgacg cttgattccg tgtcccgctc accgcgacaa 420
ggtactccat tgacgccc 438

<210> 38835
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E5

<400> 38835

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ggcgatgtcg gggcgcgga agggccgcaa aggtctgggc aaggcgag gagcagcga 120
ccgtaagggtg ctccgtgaca acattcaggg catcaccaag ccccgatcc gtaggctggc 180
tcggaggggc ggcgtgaagc gcatttcggg gcttatctac gaggagacc gcggcgctct 240
caagatcttc ctgagaacg tcattccgga cgccgtcacc tacaccgagc acgcagccg 300
caagactgtt accgcatgg acgtcgtcta cgcgtcaag cgccagggcc gaacctcta 360

cggttagga ggctatgctg gatgcctct

389

<210> 38836
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E7

<400> 38836

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gaggagctga aggagaagtt tgaggggctg tgcaagggtca tcaaggaggt tctgggtgac 180
aaagttgaga aggtggtggc gtctgatcgc gttgtggact caccgtgctg ccttgtgact 240
ggcgagtatg gctggaccgc caacatggag aggatcatga aggcacaggc cctgagggac 300
tcgagcatgg cgggctacat gtcgagcaaa aagacaatgg agatcaaccc agagaaccct 360
atcatggatg agctccgcaa gcgtgccgag gctgacaaga atgacaagtc agtcaaggat 420
ctcgtgatgc tgct 434

<210> 38837
<211> 304
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E8

<400> 38837

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ggtgcgaggc gttccagagg atgcagagat agaggatgca gaggagaag atgcgatcaa 120
tgttagattg ataaatgtaa tatggttctg acatctatgt tcgaatatgc cgtgacaag 180
tagatctatc ggatcgcttt gttctcttga gtgatgaaac atgatggcgg tcgggctaag 240
ggtgaagctg ctttcagtta gactatgctg tcattctgct gaatatatat cagatttctt 300
gaac 304

<210> 38838
<211> 355
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-E9

<400> 38838

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ctatgcagat gcctactgca ctggccttct gttggctcgc cgtgtgctca agatccgtgg 120
cttggatcat gagtacgacg gcaatgttga ggccactggt gaggacttct ctgatgagcc 180
agctgatgag aggaggcctt gtcgtgctct cttggatggt ggccttatca ggactacaac 240
agggaaccgt gtcttttggtg cctcaaggg agcattggat ggaggcctgt atattcctta 300
cagcgagaag aggcttgctg gattcaagaa ggacgacaag cagttggatg ctgat 355

<210> 38839

<211> 401

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-F10

<400> 38839

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tcctgggaca tcaacctagg atggttctta gagccagtgg ttcgtggtga ctacccttc 120
tccatgagat cattggctag ggaacgacta cccttcttca aggacgagca gaaggagaag 180
ctcgccgggt cctataacat gttgggggta aactactaca cctcacgggt ctccaaaaac 240
atcgatatct caccaaacta ctcacctgtg ctcaacactg acgacgcta cgccagtcaa 300
gaagttaacg ggctgacgg gaagcccatt ggtcctccta tgggaaatcc atggatctac 360
atgtaccctg aaggcttgaa ggatctcctt atgatcatga a 401

<210> 38840

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-F11

<400> 38840

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agctagctcg ggcggcagca ggcagccatc atgtcggagg agaagcacca ccacttcttc 120
aaccaccaca agaaggacga ggagcagtcc gccagtaacg acgggtactc cgagaccgag 180
gtggtcaccg ccaccggcga gggcgagtac gagaggtaaca agaaggagga gaaggagcac 240
aagcacaagc agcacctctg cgaggccggc gccatcgccg ccggcgccctt cgcactctac 300
gagaagcacg aggcgaagaa ggaccccgag cacgcgcaca ggcacaagat cacggaagag 360
gtcgtgcccg cggcagccgt cggcgccggc ggctacgtat tccacgagca ccactag 417

<210> 38841
<211> 450
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-F12

<400> 38841

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gcgagagcta gctagagggc cgtgaaaatg ccgatcaata ggatcgccct ggggagccac 120
caataggtgt accaccggg cgcctcaag gcggcgttcg ctgagttcat ctacaccctc 180
atattegtct tcgccggcca gggctccggc atggccttca gcaagctgac cggcggcggc 240
ccgacgacct cggcgggcct gatcgcgacg gcgggtggcg acgcgttcgc gctgttcgtg 300
gcgggtgtcg tgggcgcgaa catctncggc gggcacgtga acccgccgt gaccttcggc 360
gccttcgtgg gcggcaacat caccctgttc cggaggctcc tgtactgggt ggcgcaactg 420
ctgggggtcca cggggcgctg cttcctgctc 450

<210> 38842
<211> 448
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-F2

<400> 38842

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gggaagctgt tgtttcacag aatgcagaat cacaaatc agaagtcag cttattgtgc 120

agggtgtgttc gacaagtgtt gatgaagctc ttatgaaaga agagtttgac aagctgtctg 180
 ctgcccttgtt acaaggagca gcaacatgct cacctccctt gccactgaca actattgtag 240
 tgcaagatca taaagggata tcaaagtctg cacctactga ttgccactg agcccgctat 300
 tggtagcaaaa gggagataag ttggatggca catcagaaga taaaacaaga atccatgatc 360
 acataagcaa cttaaagtctc tctatatcac caacagcttt tttccagggtt aatactcttg 420
 ctgcngaaag attgtatacc cttgctgg 448

<210> 38843
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-F3

<400> 38843
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 tgggtgctctg aacgtggatg ttaacgagtt ccagaccaac ctggtaccct acccgaggat 120
 ccacttcatg ctttcttcgt acgctccagt catctctgct gagaaggcct accacgagca 180
 gctctctgtg gctgagatca ccaacagtgc cttcgagcca tcttccatga tggccaagtg 240
 cgacccacgc catggcaagt acatggcctg ctgcctcatg taccgtggtg atgtgggtccc 300
 caaggatgtg aatgctgctg tggccaccat caagacaaa cgcaccatcc agttcgtgga 360
 ttggtgcccc actggcttca agtgcggtcat caactaccag cc 402

<210> 38844
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D8

<400> 38844
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 gatcgaccag atttggcagt gacagacttc agggggggctc aagaattgag ggctgatctt 120
 cgttcttctc aaggattggg gcgtgcttat ctagcacttt ctaaattgcaa agatgcatta 180
 ttactgcac gcgaggcgat gaacgttatg catcagtctg caaaagctct taagctagtt 240

ggtgatgttc atgcaattag ttccagtggg agggagaagg caagaaagtt ctatgaatca 300
gccattcgtc ttgaacctgg atttcttggg gctgcactgg ctctggctga tctgcatgtt 360
gcggaaagac ggaataaaga ggctgctatg ctactggaaa gatatatata acaatgggtca 420
gatgattctc taca 434

<210> 38845
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C3

<400> 38845

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ggaagagacg gacagctcag acgtttatcc cgtgattcta tctttctatc tcctcaaccc 120
tcaagacgca ataactataa catgcactag agtatgaaga aacgcaagac gtccccgaca 180
tctactccgt ctttgcaaaa actgtctcaa tgatatctcc atgaagacat cctaaggcta 240
atcactgata atgtctaata actcatatcg cacagtcatt aacgcaacag catatgtctc 300
caaagagctc aacgccaagg acactaccat gtaggcaggt catcagcggc ttccatagaa 360
tagacaaagt gccactgca gggcaaacgg tcctccatgg gcaaggccta atcaaagcat 420
ctgtatatgc a 431

<210> 38846
<211> 359
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C4

<400> 38846

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gggggctggg gcggatgagg aggagcagct gcccgagccg aagcggccgc gcgcgtgtgt 120
cgccacgctc gaccacgtcc ccggcgccgc ggtgtccttg gttctggtga ccgatgagac 180
ggaggactcg cctggctcgg gcagaggcga ctgcccgcac ggcgcgctcg tctcgatcca 240
gcacgcgcgg agcggcttcg tggcgttgga gaccacgcc aagttcgggt ccttcaaccc 300

gccgggggaa gcctagctgg cggccctaga tctgaagcat gcgcggcacg aagccgacg 359

<210> 38847
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-C5

<400> 38847

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gagatgcctt cgtgggtgac ctctgaatat gtggcgaaag cgccattcca caccatgcag 120
gtccttggct acaagctctt gtgttggagg ttgacgggtc atatcctgac cagaaagcca 180
aagcaaagat taccactacc agtaaagcaa caaatagcaa acctacaact gatgcactgg 240
caatatcaag tcaagaatcc agcaagctac cagtggcgga agacactcat ctgcatggcg 300
ccgcagcacc gagaatccac catgagtgtt ggtatcagag gctgtcaatg tcttgcagaa 360
ggagtgcacg cgtggccttg caagtgcagc aggaggtgaa gcangcatct nctcactaga 420
gccattc 427

<210> 38848
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C6

<400> 38848

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ctgccgctgc atttgggtgt gtatgcattg gcgcattgac cgtcctggct gatttcatgg 120
gtgcgattgg ttcaggaact ggtatattgc tcgctgtgac aatcatatac caatacttcg 180
aaacctttga gaaggaaagg gcgactgagc ttggtttctt tggcttttga ttagtagctg 240
tggaacctta acttggctat agctgaattt tcttctaagt acctgtagtg cttagccagt 300
tgtaacttaa agagtctctg ttaggttgcc ttcttgcggc cacaatcatg tagcagaatg 360
tgctgtgtt tcacgttagc gtgggggtat gtgcatctgt ccaaagagag tct 413

<210> 38849
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C8

<400> 38849

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aggcactctc gccctccttg ttcccgcgtc gctctgctcg cgatggcgtc ccgcgttgca 120
gtgctgctcg tggccgtggg ggccgtgctg ttcgcccgcg cgtcgggcca ggagatggac 180
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gtcctggccg tggtttgctc tgccgtattc tccatcctcg tcgccggtgg cctcgtgcag 300
taagcgctgc cgtcgacctg gtggctcgtc gctggttcgg ggtcaagcgg agccctgttc 360
gatcgttttc gcctctagta gtagtagaag tagcagtcac gggctgtggt ga 412

<210> 38850
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C9

<400> 38850

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gaaaaataaa aaaaaaaaaa aagaaaaaaa aaaaaaaaaa aaaaaaaaaa aatgaaccaa 120
aattaagagc acataaatgc aac 143

<210> 38851
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D1

<400> 38851

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tgcaaataag tgtaactaa agcgttgaat gagatattcc atctagccaa tataaccagg 120
tttaatagaa aataactatg actccagctt ccatcttaag ggaagctggg cttgcaagat 180

atgggtcctgg tacctgaaaa aactatcttg aggtcaggtc aaggaatact acctgtgaac 240
ctaattgtgat actggcttct 260

<210> 38852
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D10

<400> 38852

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ggcgtaaaca gccagacaac cggcactgac ttagtagcta ggtgcaactg gtacacaagc 120
catcgtgaac gctatgtact gtgaatccat ccatcctctc agtcgacctt cgaccgctag 180
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ctgcgtacgg ttatgaggcg ctccggcagt aactactcgc gcgttgcgga tgcagcactg 300
cgctctacg tctccgggtc gtcggctgct tacactgcgc agaaacggca gctcgacaac 360
tggttatcc t 371

<210> 38853
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D11

<400> 38853

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cgggagcttc gactacgcat tcgcaagacg tgtggaaagg ggactgaagc tcgcacacct 120
ggtctgatcc accggcccg cgaacggatc cagggcaccc gcattctagg atcgcgtcgc 180
gtcgcgtgcc gccgcttgaa atccccggat cgggtgcaatt ggcccctggc tgcactcgat 240
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catttggtga ttgtgtgcc tgcttgattt tgggtgatgc atggctgtgg tgaatccct 360
gcttgggggtg tctgaactag ggggtgggcc ttcaagat 398

<210> 38854
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D12

<400> 38854

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 ggggtgattc agatgatcat tatgtgatca tggaaaacta cctagtggga tcatttttgcg 120
 ttgctggata tggatgggga gaagtgtcca gcacatgggtg cttgcagatt cggttttgtat 180
 gagttgatga tttctctgtg gggcgttgca aggaagatgg gggtcgagga gaggcattgcg 240
 cagaatagct cctaggatga gcattccaag aacctcattg tcgatgccat gatgctggac 300
 tcccgggctg tcaatctcga caaggggcca cctgtctgct ctggacaagg gggctgcctt 360
 aaggctcctgt ttttgctttc 380

<210> 38855
 <211> 437
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-017-Q1-K1-D2

<400> 38855

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 acgtgtctca tcaaaggcca taaggaggca gttagggcat aaccttcttt ctgcattgaa 180
 gtacacatac aagattgata agagggattc acatcttagg ccaacgaaag gatatgcgtt 240
 tcagtcaact tctcaagttg gtgggtctatg gaatagcaaa agattgagat atttccggca 300
 ggagttcgat gtacgtgggtg ctgtgccttt gggattttat agtgetgctc tcaacgttgg 360
 tgtangagcg ggtgtcattt taccgcttgc agggggattc atgaattcga cttcatcagt 420
 gccagagagg ttttatc 437

<210> 38856
 <211> 362
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D3

<400> 38856

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gcagttcggg accggattcc tgaggctctc acgtgttaag cttcgatggg gagcagatcg 120
atgatgccct actcgatgtg tgagtaccgc tgcttcgtct gcggcctcgt ctgggacacg 180
gaccaccagt cgctgcataa cgacttgaac atctatggcg aggtcctcct agccaacatc 240
atcctccatc cggacacgca cagtgccgcg ggcttcgggt tcgtcacctt ctccacggag 300
gatgcgatgc ctaacgacat cgagggcatc aacagcaagg agctggactg tcgcaacatc 360
ac 362

<210> 38857

<211> 439

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-017-Q1-K1-D4

<400> 38857

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cgtgcggatc ggagatggcg acaagcgggt ggaggaggag agcggcggcg cgggccttct 120
ggagccacac cacggtgtac ctgtggctcg cgctcgccgc agcagcactg acgctcgccc 180
aggctaagaa ggacctaacg gaggttacct acaaggtcta cttcgatgtc gagattgacg 240
gcaagcccgc aggtcggatt gtcatggggc tttttgggaa gactgttcct aagacagcag 300
agaacttccg agctctttgc acaggagaga aaggaattgg caagagtggc aaagctctcc 360
actacaaggg aagtacattc cacagaatca ttcccagctt catgctccaa ggaggtgact 420
tcactcttgg ngatggggag 439

<210> 38858

<211> 395

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-017-Q1-K1-D5

<400> 38858

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gttgatcgct gcgcttacgt cactgagaca gtccttgctg cctgctacaa ggctctcaac 120
gagcaccatg tcctcctgga ggggtaccctc ctgaagccca acatgggtgac tcctgggtcc 180
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accgtccctg ctgctgtgcc tgctgttgct ttcctctacg gtggacagag cgaggaggag 300
gccaccctga atctcaatgc catgaacaag ctcagcacca agaagccatg ggccctgtcc 360
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<210> 38859

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D6

<400> 38859

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gggagtctct tattagctct aggtcttagc tagccgcgcc actccttcgt gtagccatca 120
gccttctcat cgccaccaat ggccactgcc gaggtccaga ccccgaccgt cgtggcggcc 180
gaagaagcgc ccgtggtgga gaccccgctc tgggcgctc tgcccagga gtctgcccc 240
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gccgagcagc aagcagccgc cgaggcgag gccgcggctc ctgctggtgc cgaggagccc 360
gtcgcgcccg aaccggccgt cgaggcgag gctgctgctc ctgctggtcc cgaggagact 420
cctgcggtcg agc 433

<210> 38860

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-D7

<400> 38860

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 ggacgcccc ggaggggcgc ccgcggcagc gccggcgctg ggcacagaac acgcccacta 120
 cccgtattac gctggctatt cttatcccta cggcgccctat caccaacctg ccccgccac 180
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 gtcgtccacc gacgcgcagt acgacccta ttcgggttac cagcactaca gtcacccgga 300
 gggaggacgc tcggcggggg ctggcctggt gggctgctac agcaccgtcg gcgaggcgtt 360
 gcagcaggcc gaggtagcat cgacgacgc 389

<210> 38861

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C12

<400> 38861

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 gcgcaacatc aaatcaatgt agcatgcttc tgtacctca aggttcgtcc ttgtgaactc 180
 tgatgtactt ctgattaaag ttttcattcc aaatgtttat ttggatcatg tgccgctaatt 240
 ttatcagctc cagtgtcgtc aatctcattg gacatactg cccggtctca acatgagggt 300
 agtctggcaa ttggaagagt atgctgggta ctagaaatat ggatatggaa tgcattctacc 360
 aacaaaattt agaattccag tgcattggat gcacattaac aagtgtaatg ctatacatt 419

<210> 38862

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A5

<400> 38862

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 caactgagtt gtgcgaggag aattatgcac actcgtcata tatcgagaa ttctacaata 180

ccatctctaa tgtcccatgc gttcttttgg cacttattgg attagtgaat gctttctgcc 240
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gtatgatttt ccatgccacc ttgcaacttc tctacaaca gagtgatgag actcctatgg 360
tttgggagat ccttctctac atgtatgtcc tctattcacc ggactggcac tacaagagca 420
caat 424

<210> 38863
<211> 412
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A6

<400> 38863

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ggccttagga gaacaccaga tctagacatt tgttgaaaca acttaccatt ggcccagaca 180
attcttttagc acgaatgatg gatcttgcaa ccacaaggaa gctcgcgatg aaaaataaaa 240
ttgtttttgg cacaagtgac cattggccgg cccctacttt gactgctaac atgggttctg 300
taagagctgt ttcccactct ggtatgtcct tgcttaccat cgatcaccga ccttgggcgc 360
tgattgtgct gtgacagtta gtatgccata actattctat acgtggtttg ag 412

<210> 38864
<211> 111
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A7

<400> 38864

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<210> 38865
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A8

<400> 38865

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ggggcatcat actcttatgt gtcggcgta gtttgtttgc gtcacagtt tcgttgtctg 120
ttgcatgtca cggcttactt atgtgcttat ggattgctac tatacaagta ttcgttttgg 180
atgtgttaaa aagacatgaa aatggagcta catgccagaa gacagacgga ggcttctttg 240
gaagctgctc tgac 254

<210> 38866

<211> 434

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-017-Q1-K1-B1

<400> 38866

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tcttaaggtc ctggtacatc tcctcgatca acggcttcca cagacgaacc ctgcgattta 180
tgaaccaatt tgaaacctgg taaaaatgca aaaccactcg aatccatcat taccatct 240
cgccaaaaaa gaatcgaatt tgaaacgagt ctggtgggat ttgatctgt gcttggttcc 300
tggtgaggct gtccttgcc gncagcacgt ncttctcatg gtccttgga tacctgagca 360
gagcanagca gagcgcgatt ctgatcatgg ccaacaatgt cgatagacga tttgcacagc 420
aacgtcgcgg gaca 434

<210> 38867

<211> 264

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B10

<400> 38867

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gacgctcatt ggggtacgtga acaaggatgc tcatgctgca ttacagtgt aatgttggtc 120

tcattgggcaa tactactgat acatatctct acggtgtcat tgagattggt atacacagca 180
aacgttggac tgaaccttca tatgataatg gatggtgccca ctctagtgtt taaggctgta 240
tagaaaatga atgcggtcga tatt 264

<210> 38868
<211> 295
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B11

<400> 38868

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ggcctcagga gatgaagcag ccggcggaga gtgcgtgaac aatcgagcca acagaatttg 120
caccacacac caacacacag ttgctagtgg tcaattgtcg ttcatactga tcgatgaata 180
tgtaattgtc ccttctgtac accaaaacgt ctgtagtgtc gtttactcgt tttatacgtg 240
tctgtctatt tatcgacca aaagatattt aataataatg gattattatc tttct 295

<210> 38869
<211> 287
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B2

<400> 38869

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aatagaaaat atgaaaaaaaa taaataaata aaaaaaaaaa aaaattaata atatatataa 120
aatttctttt aaattccttt tccatcttat acttcaacct atttcacaac taactatttg 180
atttatcaac caatttttaa aatatacaaa tttaaaccac tataatcatt attaaccatc 240
tcttaaaaaa aaatagattt aaaaaaaaaa ttgaaatttc atttttc 287

<210> 38870
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-017-Q1-K1-B3

<400> 38870

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cggcaggggtg gcgtgcaaca agaagggcgg catccggttc accatcaacg gccactccta 120
cttcaacctg gtgctgggtga ccaacgtggg cggcgccggc gacgtgcacg cgggtggccgt 180
gaagggcgac cgttccgcgg ggtggcaggc cctgtcgcgc aactggggcc agaactggca 240
gagcaacacg ctcttgagc ggcaggccct ctcttccgc gtcaccacca gcgacggccg 300
ctccgaggtc tccagcaacg cttgcccgcg cggctggggc ttcggccaga ccttcagcgg 360
ngcccagttc aactgaacac cctccatggt tcccgcagcg tcgtctcgtc cgtcgtcggc 420
gcggtgccac angtagtagt ttt 443

<210> 38871

<211> 310

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B4

<400> 38871

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tagggaaaaa ttaaaaaata aaaaaataa aaaaatataa ataaaaata aaaaaaaaaa 120
taataattaa aaattataaa aaaataacaa aaataaaaat aaacaaataa aataacaaaa 180
ttaatcatta aagtcaactt ttttaaatag atacaaatat atgttgtaca acttaggtta 240
aaactttatt aataacacac taatggactt taataacctc ttcttaaaaa ttattaataa 300
ttaaaaacac 310

<210> 38872

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B5

<400> 38872

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gagttcacga tgcgtgtggt cctctgggggt gctctttctt ccatgggtgct ccctaagtat 120
 cctctgcccc cctatgatgt tgtagtacgt ggaggagccc ctaatgcctt ttcgcaatgt 180
 atgggttgc atgacgagac acaaaaacca tccctgaaga aagccttgct tcttggtgat 240
 gcaatttcag atttaccaa ggttcaaaat caccagccta acgatgtgat ggagtatggg 300
 ggttccccca agaccgaatt ccagcgctac attcgactca gtcgtaaaga catgttggat 360
 tggtccttca gtgagggggc tgggtccaaat gaaggcaagc tctttgatca ccaaccttta 420
 cggcttacaa cgatgattat ga 442

<210> 38873
 <211> 441
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-017-Q1-K1-B7

<400> 38873
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 gtggttacca ctggcttaca agttccaaat aattgggtgc tatgctcaga cggaacttgg 180
 tcatggctca aacgttcagg gccttgaaac aactgctaca ttcgatccga agactgatga 240
 gtttgtcatc cacagtccaa ctctcacgtc cagcaaattg tggcctgggtg gcttggggaa 300
 agcttacacc catgcagtgg tgtacgctcg gttgataact gaaggaaagg actatggcat 360
 acatggtttc attgtgcaac tgcgaagctt agaggatcac ttncacttn ctgggtgtac 420
 ccctcgtgat attggtggaa g 441

<210> 38874
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B8

<400> 38874
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 tgtgtcagta agatgcagct ctgctcttga tcttttctgg ttgacgagca tgtatgggtcc 120

ttgcaaagcg atcattgggtc caaagcgact ttaatctgac gagacctcct catttttagg 180
 ttttttggta tttagaacca gaataatttg tgcatactca ttactccctt ggatctgaaa 240
 caaatgtcgt tatattgaat gagtgggttct ctgatgcact aataacctga tagccggaga 300
 atcactaaca ttatatgcaa gaactttatc taaaagccag tcaccatggc cccctgagaa 360
 ccccgacatg ctgcaactga ggcaagcttt tatgctcaag atcttgatga ggtattcat 419

<210> 38875
 <211> 353
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-B9

<400> 38875

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 agcgctgatt atggtgttgc tggcctcgaa gtttcaaadc ccatagacat gacaggcgaa 120
 actggaacgc tcggttacat ggacactgcg ggtctgaatg gaaatcccta caacaggaaa 180
 tgcgatgggt acagcttcgg gatctgtttg tgggagatat actgctgaga tatgccatat 240
 cctgacttga gcttttctga ggtcacgtct gcagttgtcc gtcagaacct gaagcctgag 300
 ataccacgct gctgcccag ctctctatcg aacgtgatga agcgctgctg gga 353

<210> 38876
 <211> 407
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-017-Q1-K1-C1

<400> 38876

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 cattcaggaa taagaaaaag cacgatcgct cttcatgctg ttctaacaca ctttcaagta 180
 gtgatgtaga tgcgggcaat gttcctgagg aggacaatgc taatgagaag gcgaagcaag 240
 cctcctgcag caactcttca gctggtgaca ctaaccaccg cagatttaga agcaatggaa 300

gcacaagtga ttcatggaag gaagtttccg aagaggggtcg tctggctttc gatgcgctgt 360
tcagtaggga aaagcttccg canagctttt ctccccaca agcagta 407

<210> 38877
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C10

<400> 38877

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acatgaagat cagcacagg gtgagcatga acaccatgag catgagaatg aacacgacca 120
tgaccatcat caccatcatg atcatgatca tgatcatcat gcacatgacc aactcatga 180
tcccgggtgtt tgtatctgtg agcattgact gcgaagggga catggatctt gaaaaggctg 240
acatgaggct gggggaccta ctgctggaac acagcgagga tatctacagg atgaaaggctc 300
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<210> 38878
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-017-Q1-K1-A4

<400> 38878

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attcaagggg tcatggtaga aagggtcgta cagctagtag gggtagggat gaggttggga 180
catggagcct cgatttgag gacatgaaaa tggagctaca ggccagaaga cagagggagg 240
ctgctttgga agctgctttg gcagagaagg agcttctcga agaagagtac aagaaaaagt 300
ttgacgaggc aaagaaaaag gaactatctc tggagaatga tctagcangc atgtgggttc 360
ttgctgctaa gttgaaaaga ggagcttttag gcatatctga tttgaatgtt gacgaccgaa 420
ctgttaacct agctgata 438

<210> 38879
 <211> 458
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-C11

<400> 38879

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aaccgctgct gctattgcct atggtcttga caagaaggca accagtgtcg gtgagaagaa  180
tgtcctcatt tttgacctg gaggtggtac cttcgatgtc tccctcctta caattgagga  240
aggatatctt gaagtcaagg ccacagctgg cgacacccat cttggtggtg aggactttga  300
caacaggatg gttaaccact ttgtccagga gttcaagaga aagaacaaga aggatatcac  360
tggcaacccg agggctctcc ggcggtgaa gaccttttgt gagagggcca agagaactct  420
ggcttccact gccagacca ccattgagat tgactcgc                               458
  
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<210> 38880
 <211> 391
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H12

<400> 38880

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gttaaccca aggaccacga caagccagtg caagaggtgc tgattgagct gaccaacggc  180
ggcgtcgacc gcagcgtgga gtgcaccggt aacatcaacg ccatgatatc cgacttcgaa  240
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ttcaagacc acccatgaa ctctctcctc gagaagacac tcaagggcac ctttttcgga  360
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<210> 38881
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-016-Q1-K1-H2

<400> 38881

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ttgcagatgc ggctactgtc tagagtatcg gttctgttga ggcttagaag gggctacccg 360
acgtcgaaaa gaaaatagcg atatcttaaa gtgaatctgc anggaacgta ctaaaggcga 420
agtagactat g 431

<210> 38882
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H3

<400> 38882

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cctctggtga cgacgctgtt tactgaggtg tagggctcag gatttgtttg atgctacgct 180
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gaaaagaaac ggctaaaatg tgtggatagc gagcccggtat gtcgcgcac cctggcgatt 360
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ccgcgatccc gcgagc 436

<210> 38883
<211> 389
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-016-Q1-K1-H4

<400> 38883

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cgagaaacga acggcttacc ggtagcgcgt cagtagccgt ttagtagctg ccgctcagcg 120
ccgagacgcg agtgttacag gtagcccggt cggcgcaaca aaaacgggcg cactagataa 180
tgcccaaact ccgacgaaat tgcgcaccgt attcgcggca cactgttaaa tcccatctac 240
ctagtaccac attataggcg taacgtcgaa cgagcaaagc ccggtgacaa aaaaaagaaa 300
aaaaaggggtg gttgtctcag aggacttaag tccatgcatg tgcgtacgtg atgctacagt 360
ctcctcacag cgctattcan acctaacct 389

<210> 38884
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H5

<400> 38884

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ttataaagaa aagctaggcg cctctaatacg tcgtcgataa ttagatttaa gcgggcactt 180
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acgttaacgg aaccgcgatt gctctagtta aagacaaggt cattgggaag gagtagaata 360
ctattacatg acttctgggc gggtcgctag aggtcgatac ttagaagacg gcgtaagaag 420
tcgagtcgta cgttta 436

<210> 38885
<211> 452
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-016-Q1-K1-H6

<400> 38885

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cttctgttct tgccttgccct tgccttgctt tgtttgttgt tgttgttgta cctagggacg 180

gagacgaaga agactgttcg tgttgcttct gctgttgctt tgggtggttat tgcgggtgtct 240

gttgtggagg tcttgggtctt ggggttttatt agtgggtcttc ttgttgctgt gtttgttgct 300

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<210> 38886

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H7

<400> 38886

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gtctgatgtg tagaaggtta atactgttct ggtaagggtt gctgtgtgga cttcttgtat 180

gctgtccgga tttaagggtta cggacaagac gtcttagctt tttgatgggtg atgctactac 240

tataaacgac ggagtgatta cttcggagta gacggacgcc gataattaga cagtaaagtc 300

gacggcggag tcgctttgca gctaagatca cgaaactggg gacggcatta ttggggcggc 360

agctacggta ggggtctcct ctgagtaggt cgagaagtcc tcggagtgcg gcacctatct 420

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<210> 38887

<211> 455

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-016-Q1-K1-H8

<400> 38887

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 gaccaccact ttcttcataa ggatagttag gatcatttct ttcataggga tggtagggat 300
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 ctgttgntca tccacggcgg cggcaggcta aggagggatt gactggccct attgcactgg 420
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<210> 38888
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-016-Q1-K1-H9
 <400> 38888

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 ctggagagtt tgagaagaaa tatgaaccaa ccattggtgt ggaagttcat ccgttggatt 240
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 ttggtggcct cagggatgga tactatatcc atggccagtg tgcatcatc atgtttgatg 360
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<210> 38889
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-017-Q1-K1-A1
 <400> 38889

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 ttccctagca ttccccacgg gcgagtggcg gcttggtcga gatgggcat gcggttgatg 180
 acatcatctg tgcaacggat gggcggtcg ccgtcgagga tgcggccagt ggaagcccg 240
 caatgctctc tagcttaggg gggcacggtg aggaagagca tgaggagaag gacaatgacg 300
 acaagtacg cgagagcgag gtgatcaacc cgccagaaga cgctggcggg gaggccacct 360
 caccctgga agggttgaag cctcgctttt ccaaggggaa tcaaagccat ggacctaatg 420
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<210> 38890
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A10

<400> 38890

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 ccagcacttt ccatgtccgc tgaagtattt cacaggtagc tccagggaaa gtatgtggat 180
 gctgaaggaa acgtgtgaaa gagtttccag tgggtgttctt ggatggcaag gtatgcatga 240
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<210> 38891
 <211> 399
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A11

<400> 38891

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 tctccggcgt cgacgacagg aagcccttcc tcgtctcac cctcctctgt agcaccttat 180
 ttaggctcat aagttagata gtctgtctg caatatggag aggatttctg actataaagt 240
 caggagctag gcgggcatat gtgattctga tccttacatg tgtcgcattg caagaaagca 300

ctcgtattgt gtcttggatg ctttacaaga taatcgacta gatgctagat gcttttgctg 360
atagaatatg taagccacgt cttagatcga ctgacaaga 399

<210> 38892
<211> 339
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-017-Q1-K1-A12
<400> 38892

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cgggcgagcc ttatgaacct agtggatcat gctacgtatg ctctgagacc ccacttgctc 120
tggagggttaa tactaacaca acatagctac gggaagacat tgaaaacctt ataaaaagca 180
aacttggaat gaacctccct ttgataatgg ttggtgccac gctagttttg gaaagatggc 240
aggatcgata agactatcag acggtagatt atgctttaaa cctcgaaaag gtcttggctg 300
aacttccagc tgcaggtcta aatggtacaa cacttacag 339

<210> 38893
<211> 343
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-017-Q1-K1-A2
<400> 38893

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tacagggaaa acggtaaacc ttctggtacc ttacctctct caacaagctt ctagggaccg 120
tgattacata acatgaacca aaggctaattg acgtccatga acgacaccgg cgatgcacga 180
tgaggacatt aacattgcaa ctgatgcatg catatgcagg aaatgatgcc aacagccaga 240
ataccgaaat gctctttata tgaggtaggt caagtgaaga agagcatgag gataacgaca 300
cagaaaacaa gtccagagac aactaggcga tcaacccgac ata 343

<210> 38894
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-A3

<400> 38894

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gaagatttcc cacggtgatt ttcatacgct ttactatgcc atgtaccttc aagtcagcac 180
aatcaatcag ggcccttaac ttacacggtc tcgcaggctc gcaactggtc atttgtgtac 240
c 241

<210> 38895

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H11

<400> 38895

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cggagccaat gtctctgagg tggcttacgc cgtgggcaag gacacgagaa ttggccccaa 180
gttctgaac gccagtgttg ggttcgggtg ctcatgcttc cagaaggaca tcctgaacct 240
ggtgtacatc tgcgagtga acggcctgcc cgagggtggc aactactgga agcaggatgat 300
caagatcaac gactaccaga agagccggtt cgtgaaccgc gtcgtggcct gcatgttcaa 360
caccgtcgac ggcaagaaag atcgccggtc ctcggcttcg cctttcaaga aggacaccgg 420
ttgacaccag 430

<210> 38896

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F8

<400> 38896

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ggcaggcgct cgctctctcc ggcggtcggc cgtaatggct acggtgatgc tgctctgctg 180
 ggcgtttccg tcgtcgtcgc gttcgggtgc gtcggcgctt cgtcttcctg tgggtgggtag 240
 tccggattag gagtcggata ctatgcgggg tgatgggtgg ggtaaggctt ccgataatgg 300
 gtggtcgtcg atgtcgtgt cggtattgtat gcttgggtctt gggccttagc tttggtatga 360
 gcattcgcct ggtaagactg atacgt 386

<210> 38897
 <211> 216
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F9

<400> 38897

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 cctaaaagcc aaaaaataa gcgattcatt tttagccctt ataaaatgat aacggattct 180
 tgaacctatt acacgtcat gtcacgtcta ggtact 216

<210> 38898
 <211> 430
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-016-Q1-K1-G1

<400> 38898

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 cttctttgtt gttgttggtg atacgggtgg gggttgtgtg taggcgaata aggtttataa 180
 gagttgtcct gtgcttaagg tcctttgtta tatgtataag actgataagg ctaggagtgg 240
 gaagctagag attagttatt gtgttgctgc aaaggggggt tgtgttgntt gtacttagta 300
 gagtaagggt acttgcgaca aaaaatgcgt cgtcccgtcg aaggagaagt gtctgctaata 360
 cggattccta agtgtattat gtgctaccgc ctctgccggt tccctcctac taataaacgc 420

tggactatcc 430

<210> 38899
<211> 272
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G10

<400> 38899

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gttgatgaa cgggtttttt ttaggtgtat ctagtgtttg gagaaccgca acatgatgtc 120
tatgttgta atgacctaag tgcatttctc taccaccagc actcttgccc aagcatggta 180
gaccatttgt gtttaatgtt cattacatgc taataaaaga tactgggtggg aagggttaagg 240
ttatgggtttt aggcacacca aacaagaggg ag 272

<210> 38900
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G11

<400> 38900

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gataacgcac acccaccacc atggcgacgc cgggagagca gccggcggag gtcgtgtccg 120
tcgagatgcc cgcacccgac ggggtggacca agaagtttac tcccttgaga ggggggagat 180
ctgagattgt ttttgtttca ccaactgggtg aggaaattaa gaacaagagg caattaagtc 240
agtacctaaa ggcacaccct ggaggccctg ctgtttcaga gtttgattgg ggaactgggtg 300
ataccccaag gcgttctgct cgtattagcg agaaagtcaa ggtatttgat agcccagagg 360
gcgagaagat cccgaagcgc agcaggaact ccagtggtag gaagggtaag caggggaaga 420
aagaaacccc tgagaccgaa gaagccaaa 449

<210> 38901
<211> 385
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G12

<400> 38901

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tggacattgg cgcggtttaa tgcagaggaa gtctcaaagg cagccgcgga ggcaaggaag 120
aaatccaaaa tcttgaaacc agttggaaaa catggcgccc cagagaacag cagcaaacca 180
gaccatttgc ctagctacaa gagacggcta gacaggagag gtttccctgc tgaactctct 240
cttgaccacac ttgcaactct atccgcaagc ggcaccgaaa gcaactacag cgacgcagca 300
acagaaatct gtggcagtct agccccgtta cagctcgaag cgagaagtgc tttccaaccg 360
agtactgcag cgtcacaaag aaatg 385

<210> 38902

<211> 403

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G2

<400> 38902

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tcctaact aagaacgatc ctattttcga ggaggaagag gagacttgta gggagaatta 180
gcgggttcct gagcaaggag gcgtcggact caccgacgtt caagcccggc ggcgctcatc 240
atcacgtca tctcacgccg cttcaacggc cgcaagcacc ccgggagcta tcccgccgt 300
gaacgctctg tgcaagatcc acgcggctaa cggctggcca ccaatccacc attacgaaag 360
tatcccgtc gtcgtttcaa gaggcccagc tttaccgta cca 403

<210> 38903

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G3

<400> 38903

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cagaactcga aatctagggg aaccggcggt atgagcacag aaaatcaaag gtgaaggctg 120
 agataacata aaaacgctaa aagtattcta cgggagagga ctccgaaatg ccgaactcta 180
 aagagtccta gtaatcagag tagtagtcgg agagcctatc gaaatacact agaattagga 240
 agagttagtc cacgtctgag ctaaccctgg agtcttaatg gaaggagaag ctgtcgtagg 300
 aggagaataa ggccctcgtag aaggagtctg tggagaagta gaaagttag tggaagtaag 360
 cgtaacgggg ttaaatttaa tagtagatta gcctgctcct tctgctcct acgacaaggg 420
 aagtcgtttt aataataaac aaccc 445

<210> 38904
 <211> 424
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-016-Q1-K1-G4

 <400> 38904

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 cggcggatga tacgtttact agggatcctt gtaattcgga gagtaagggg gcggtgcctt 180
 ttaagagtta gttgacgtgg tctcatctta gttcgcggaa tgtggatgat cgggtgatgt 240
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 ctaaggttga tgtccgtgct gttgctgtgg gtggttgat ttgtcgtggt gttattgctg 360
 gtattgaggg tattggtgtt tttgctcttg ctgntggtgt tggggatcgg cataattagg 420
 agtc 424

<210> 38905
 <211> 192
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-016-Q1-K1-G5

 <400> 38905

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 tagaaatata ggaaattagg gccatggggg acataaaatc ggacgtcgat tacttgattt 120

cacacacatt acgaaagtcg tcatagatgc ataactatgt actgcagaag ttcaaatata 180
tccactcaga tt 192

<210> 38906
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G6

<400> 38906

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acgcgtaaag tactcttcgt cgggtcttca gtcgtaccgg attccacagt taggtaatct 120
cccacgaaga gacctctcac acggtcggct agtcgggggc cgatttcttc ataacgaagt 180
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ttaacgttcc cagtcgtcta actcacactc tggtaacata tccctcggcg catcgtctcg 300
tctagccgat gcttagcgag aaggaagaaa ccgaatagat accgaagagc ctccacacca 360
tctgcccgga ctgtctaaaa ggcgactac gcttaatcgc ctgcgatgca cctgtactag 420
attccttgaa aggagtatgc gcg 443

<210> 38907
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G7

<400> 38907

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tcttcttttag ttgtagtcgg ctgtggtggt ggtggettcg gtagtggtgt cgtcgtcgtc 180
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tggggcgtgt ctgtctaata gttgtgtgct gctgggtggt gattggtagg ttattcgtaa 360
tcgttctaag agtaacgatgg gttggtctgg tgggtggtgct agtac 405

<210> 38908
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G8

<400> 38908

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cgtaaatttc gacattgcgc ccgaagcggc ttctgactcc gacaaatata agtgacacga 180
gcgggacacg ccgatagtcg acccgaggcc ggcggaaaga accgacggac atcatgacgc 240
ggccacgga attcacgaat ttaaaccacc aaaccggcgg aaacttaaca aggaccccg 300
ccctctctga taacggccct gcggataaga cggagtacac attaccccg agatcttcgt 360
cggctacaat aaaagattct taaagtacgg tcatgagtga ataaagacta atttactaat 420
acgggaaaca aggatcccg acat 444

<210> 38909
<211> 333
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-G9

<400> 38909

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gttatacata ccgtacctct ggtcgcatgc tttttggctg cacaatgtgg cttgggtattc 180
agacttcaga gaatttaatt gcgtatacga gagtaaagt agctgatttt ggtctagctg 240
gtttgccgtt tcgagcgctt gtaaacacaa attcgctcggc agtttacacc gggccgtgtg 300
tatataaatt tcctgaagtc tgtgtcttcg etc 333

<210> 38910
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H1

<400> 38910

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catgtacgag gactgtgact aagattgtgg aagtgccgta gcattcgtac ctgctggaaa 180
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cattgaagtc tattgagcct ctgaggctac gcatgtcgcc taagaagagt gagatcatcc 300
tcgccgccgg cgtcggagcg acgactatcg gtagttcctc agagaaagtc tcgaatgatg 360
at ttgtgtttg tcatggctcg gcgccgacga attcggagag tgatgcgcat aggcctgggtg 420
gtgcttcgac ggtgt 435

<210> 38911

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-H10

<400> 38911

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gtgcctcgag aagggccgcc aggtcacacg ctgcgtcctc agcctgttga aagaacttca 240
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attcgacttc tgccgtaagg agc 323

<210> 38912

<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F7

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ttcacaagca cggtaacccc ggtatggccc cgtagcagaa aaaaaaaaaa tcgaaaaaaaa 360
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tcctcac 427

<210> 38913
<211> 439
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-016-Q1-K1-E3
<400> 38913

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cgagctacgt cagaataaag ggcctcataa gggccaaatc ctataggga cgggtcgtac 180
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ccgccacgaa cattcctccg gaaaaagacg aagacgacaa gcggaagggt acgggaaatt 360
aagagtcttc cgaccacccc ggagaacacg aagtaagcaa agtatgctac gttcacggct 420
ttctcgggta ttgcggcac 439

<210> 38914
<211> 435
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-016-Q1-K1-E4
<400> 38914

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actcgaccac gtctctacgg ctcgcacgcg cgacaggccg gatttaataa cacctccgta 180
cttttgatca taggctcgac tgttacgaaa gtctctgcct acccgagtct gggggagctt 240
gtcagctcca cccctccga ccctctccg tccctcgga ttacatgaac taacaagaaa 300
cgagtcgcgc ctatccctta aaaaaaaaaa aaaagaaaaa aagaaaaata caataaatac 360
aaaaaaaaa aaaaagggtg gttgtctcag aggacttaag tccatgcatg tgcgtacgtg 420
atgctacagt ctctt 435

<210> 38915
<211> 375
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-016-Q1-K1-E5
<400> 38915

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aaaaaggagc ctaataaggt ccacagtgtg ctgccccatt tacgtacgga cacatctcat 300
gaacgtcacg aagacgcggt tctcggaagc gaaacttgga gtgcggcgcc ggtcgggtgg 360
atgccccacg agaaa 375

<210> 38916
<211> 440
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-016-Q1-K1-E6
<400> 38916

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tgctttgtgc tgttctgggt tcttcttgtt gttgtgttgg tgttatatca ggttcttcaa 180
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tcgaacgtct aaactcggtg agaagacgtc accatccatt caactttctc ttacattaag 300
cccggagcag gctacccgtc ctagataatg gagataagcc cgaggtcgcc gcgtttccta 360
cgggcgaact cgcaatcgac ggaatctccg tcaatcctcc aaagaaattc ggagatagag 420
ctgaggtcga cgaattcaca 440

<210> 38917

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E7

<400> 38917

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taatattgcc catccgaaga tgagcatgac gaacacatcg taataaataa caatgtcgtc 180
gcgccccgtt gtctcacacc ctgcaccccg acggtttcct cgtcttcgag gtacataccg 240
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agagttgtcg gacccccgtc gttacgtcac accacgggtc gggtcaccag cactacgtag 360
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<210> 38918

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E8

<400> 38918

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cgccctagta ataagccagc gtaagacccg gcaaacgttc ctccgaatcc agtggaaata 120
acgttactac cgccacggac gacgcagaca cttagtcagt cgcgtgactc gctccgcctg 180
tcgtcgccgg catagtagga taatgtcgta ttatacgtg caggtcgacc tcctacgaga 240
atacacacta aattccttcc gactagtccg ccgaggcaca taaataagct tgaaccgggg 300
acttgccgga gaaaggtatt ccatcgggat tatcgtatat cttcgtccta aaagagaatc 360

ccccgaaagg tacctagatc actaaactct agggagggaa aacttcccc ggaggactcg 420
 ttaccgaact ag 432

<210> 38919
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E9

<400> 38919

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 gctcgctgct tgtaggggtc gatggcagag agggagcatc gaacagtatt tgtcacgggtg 180
 gggaccacgt gctttgatgc ccttgtcatg gccgtagatt ctccggaagt gaagaaggct 240
 ttactgcaaa aaggttacag taatcttctc attcaaattg gccgaggaa atattgttcca 300
 tccaagggtca gtacgcttgt acctctgtag taaactaaca actatttaac tcctgtctac 360
 tagtttgcac tatgacaatc tgtactcttt cttataggga tggtcgtaac tgggtgattta 420
 agtcaccta aatgaaaagg c 441

<210> 38920
 <211> 441
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F1

<400> 38920

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 gagtcaaggc cgaaagaaca gtaccagaaa ggactattct agtatgctaa agagtacttg 180
 tagaagttta tgagaaagaa gagaaggtaa ttgtctaagt agtctcggag taggtcctaa 240
 gggaagtcag aacgaaagta gaatgcgtag ttgccgagag agtaatcgtc gaagtctggg 300
 agagggtaac cgaaaaggta aaagtcgtcg tagacgtaaa ggagtgaacc gggaagccta 360
 ggcttctccc taaggacagc cccaaagtat tcaactagga taactaatac gaggtactac 420

tctagaagat ggtccacaac a

441

<210> 38921

<211> 162

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F10

<400> 38921

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agaaaaaaaa aaaaaaaaaa agggaaaaaa aaaaaaaaca aaaaaaaaaa aaaaaaaaaa 120

aaaaaaaaaa acaaacacaa aataaataaa aaatcagcac cc 162

<210> 38922

<211> 452

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F11

<400> 38922

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gcattcagtt tatgccactg cacttccttc gtgcgcatcct agttttttctc ttcaacaagt 120

ccttgagatg tcagaaaagt ggaggtctcg gccactacca aaaggccccg tttccctttt 180

cattggaata ctgtctgcat caaatcatth cgctgagcgc atggctgtga ggaaaacatg 240

gatgcaggct ccagaaatta agtcttttga agccgtggct cgattctttg ttgcaactgaa 300

ttcaaggaaa gaggtcaatg taatgttgaa gaaagaagca gaatacttcg gagacattgt 360

cattttgcc a tttatagacc gctatgagct ggggtgttctt aagacaattg ctatctgtga 420

gtatgggggc cagaacttga ctgctgcaaa ca 452

<210> 38923

<211> 439

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-F2

<400> 38923

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 ctgtgtcggc ggtggttgat atccttggtg cgtagagcac ctctgcttat aagattgatg 180
 aggataaggc gacggcgtct gatctgtaaa agtcgacggg tgccttaggg gagttcggcg 240
 actgggcgta acccatggag cctacataga agaattcata ttgcattag ccttggaata 300
 ttactttgtc tctaattggt gttgttggtta atcctatatg tggggaatct gttatagttt 360
 cctgtaagaa cttacacacg gctaacacca cctccggcgg ccacgacaag gacgccggcg 420
 tcctttctca tcatactga 439

<210> 38924
 <211> 434
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-016-Q1-K1-F3
 <400> 38924

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 acattttaag cttaggcatc gttgcggcgc tttcgatttt aagactagga ctcatgacgc 180
 cggtacgaag agaaagggcg ccgacgagcc ttttcacgc gcgtattccg ctctccggga 240
 gaaggagaac gctcttagcg aggtctccga ggtcgtttgc accgttcgta ataagcatac 300
 gattaagctc gtaggaaagg acgttcctta ttctgggct tgggcctatt ttctttacgc 360
 ttctgcact aataagacgt cctgcgcgt cggggtcgac aggtcttaga tcggaacgaa 420
 gggcggtccc ggta 434

<210> 38925
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-016-Q1-K1-F4
 <400> 38925

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 tctaattctt cgctcctat ggcgggtaat gttcgtggta gtcgtttgat tttaatgttt 180
 ttggctgagt tattgatgct gttcttcgtc gtcattttat ttttctgct tagtggttaag 240
 cgtttgtcga atgtgtctaa gcctgggtgcg cgtgttgacg cgtctgggtc tgctaaaggt 300
 gaggccggta aggcgttcgt tgagttgcgt cgcatttcta ctaaagggtc cgtggatcct 360
 gaagttgttg ctcgttctcg tatggntact aagggttaatg cgtctgggtc tgctactgac 420
 gcttttacta agtctagtgt ttt 443

<210> 38926
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-016-Q1-K1-F5
 <400> 38926

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 cgggaattca caaactttcc atcggccgga cccgggtaaa tcactcgcat cttatcgagg 120
 tttaaacgtg acaagcgcgg tactaataat tcccgtttcc tcgtccocaa ggaactacta 180
 agtttaacct taaagtaaaa gaaaataagg ctcttacaga atctogacg cgatccgctc 240
 ggtattgatg cgagacaaca ccccgggcgc cttgctggcg gcaaacacca cgcggccctt 300
 ccccggttag ccaccgcgg actattccgg cgttgcattha ccggtacccg gtaagctacg 360
 cacactacc cgcacattgg caaaccgcct aagatggcac gaagatatgt ccactcatta 420
 gccatcgcaa aaagcatcgg caaaaa 446

<210> 38927
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-016-Q1-K1-F6
 <400> 38927

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tgccgtttct cgttctgcat gcttctggtg tegtgggagt gcgtaccgcc gaggtagcgt 120
 ggtaagtaa tgtgggtctg aggagacgac gtcgagtggg tatgggtggtg ggaggtgttc 180
 gcctatggtg ctgtacgggt aggagtctga gtattaggtg tctactccta agcatacgggt 240
 tctgggtgtg tttgcgttgt atgattctgc ttcattgtct tgttctgtta ttggtgctga 300
 tattgtgttt ctttctgttc ctttgttgta gttcctgttg ctgtcgggtgc atcgggggtcg 360
 tcatggtgtg ggggtgttgc ctgggtgtaa ggtggtggag gatatggagt tggcgtggcg 420
 ttggtggatg gatggaaga a 441

<210> 38928

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E2

<400> 38928

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 catagacgtt ctgagcaaac cgggttagga tttacagagt aacggttatt ttaacgcccc 120
 gaacaaaaaa agaaatctta atctgaccta cagacctcta tctagaatcg tcgtatgctg 180
 tagcgtaagt gcgcgctcgg tcctgttttag tcctcccccc cgttcgcgac ccgtatgata 240
 cccacacca ccgaaactcc gtagaactgt ccgatgacga acaaaaaaaaa aaaaaaaaaa 300
 acaaaaaaaaa aaaaagggtg gttgtctcag aggacttaag tccatgcatg tgcgtacgtc 360
 atgctacagt ctctcacag cgctattcaa acctaacctc tcggttgctg ccccataatg 420
 cctgcgatcg ggaaaatttt tt 442

<210> 38929

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-016-Q1-K1-D1

<400> 38929

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 acgaggagac tgggtgttctc gttgaggatt cggattcttc aaatattccg aaagtcctcc 120

tgcttagtgg tagtaatgag acgacggcga ggaatcttat taagcctgat gctgagaggt 180
 gngtaatgg gagtatgagg actgagactc gtcgcggttat anattttgag gcgtcgccgc 240
 ttatggcaag tgtgtcggag gcgtcgggtt cggagactga gtagcgtgcg gcgagtcgtc 300
 ctagtgatcc cggtagctan gttctccgtc tataagagga ggaggaggat ggcaacaaca 360
 agaggtaagc ctcaagtatt gatgagacaa aataggttcc gccctggagc gtcggtca 418

<210> 38930

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D10

<400> 38930

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 gggtcagaca ccacaacaat tgcggttgcc acggacaaag gatgttattg taaatggggg 120
 cattgtgaag gtcaagtact gtgacacctg catgctgtac agaccacctc gatgctcaca 180
 ctgctctatc tgtaataact gtgtggagcg ctttgaccac cactgccctt gggttggcca 240
 atgcatagga ttgcgcaatt atcggttctt ctatatgttt gtattctcta caacattact 300
 gtgcctttat gtatttggtt tctgctgggt gtacattatc aagattagag acgcagaaca 360
 gtcgtcgatc tggaaagcaa tgttgaagac ttcagcataa atggttctga tcatatactg 420
 ctgcatctgt gtgt 434

<210> 38931

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D11

<400> 38931

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 tcacggccgc ctccacaatg cgcgcgccat ctgcgctgc tctgcccct gctactgctg 120
 gcctcgccgg cggccacgcg cctggcgctc gccgcctgcg cgggcgagaa gttcccggcg 180
 gggcgtgcgt acgcgtcgtg cgaggacctg ccgaagctgg gcgcgtcgct gcactggacg 240

tacgacgcgt ccaagagctc cctgtcgggtg gcgttcgtgg cggcgccccgc agcagcgggc 300
ggatgggtgg cgtggggcct gaacccgacg ggcgagggca tggccggcgc gcaagcgcctg 360
gtggcgctgg cggaggccgg ggccgcggcg cccgcctgtc ggacgtacaa catcacgggg 420
tacgtccccg tgggcaaggc ctacacg 447

<210> 38932

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D12

<400> 38932

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gatgaagagg ggatcagatt tgctcatcgc gacctacctt ggggggttcat tttgtgttgt 120
tgggttggtat ggggagaagt gtcgagcaca tgggtgcttg agtttggttt gtttgtgttg 180
atgattttctc tgtggggcgt tgcaggaag atgggggtcg aggagaggca ggcgcagaag 240
agctccttag aggagcattc caagaacctc atcggcgatg ccatgatgct ggactccccg 300
gctgtcaatc tcgacaaggg gccaccctgt cgctctggac aagggggctg ccctaaggctc 360
ctgtttttgc tttcttcaga tgaaggaaca tctatcctgg agcttggtgc tggaataggt 420
tgtttcaactg gagaactcgc t 441

<210> 38933

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D2

<400> 38933

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tctcgccct gaaaaggcta cgtgagaaaa tctgcctccc ggatgggtgat tattggcttt 120
atctcgtagc aagaagacag aactaccgc cggagagtta acagagcccg attcgtaag 180
tccgaagtaa gaagtactaa tggcatttta cgatctactt ctgcaatgga aggggcggtt 240
ggttaccata ttggacgggt cggatgaggt tgtttagaga cgggccatt agaagacgct 300

agataaggct tagctcgca cggagagatc gtggaaaata gccattaatt ccaagtagtg 360
 ccgactccta ctactaggt aacattccgc cgaatcgctg accaggacct cccaattagt 420
 ccgagccggc ggac 434

<210> 38934
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-016-Q1-K1-D3
 <400> 38934

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 ttcttcttct ttagttgtag tcggctgtgg tgggtggggc ttcggtagtg gtgtcgctgt 180
 cgtcgggtgg ggggggtggg atgggtgctg tgggtggcgag tcgtggtgag gcgatgctgc 240
 tggcgggtgt gcgttctggg catgtgacgg gtagtgtggt gctgtttctt gtggtgcgtc 300
 gtagtggggc gtgtctgtct aatagttgtg tgctgctagt ggtagattgg taggttattc 360
 gtaatcggtc taagagtacg atgggttggg ctgggtggcg tgctagtacg gttaatgttg 420
 ataatacttt tggtg 435

<210> 38935
 <211> 192
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-016-Q1-K1-D4
 <400> 38935

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 caatataaga aaaagggaaa ggctctaacc gaaaaaacga aaagtatgac atcaacctcg 120
 ttagttgtaa aaaagacaca aacgacgccg attcagtaga gacctaatcg ttgactctga 180
 agtaagatgt ac 192

<210> 38936
 <211> 424

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-016-Q1-K1-D5

 <400> 38936

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 tgtcggatgg taataagggtg aggactgggtg agtctgggtg gacgagggtg tcggcggagt 180
 cttctgagta tggtagtatg gtagtgagga aagatgtggt tctggttact cctaattcgc 240
 gtatgtcgta tgagaataag ctgtgggtta ttaagagtgg ggttgctgat gcgatgtcga 300
 gggttgctgt tcgtgttggg gatggctctg gtcttggtct gtcggcggat gagctctcgg 360
 ttgcttctgt gtcgtcgtg ggtgattatg aggtggcgga ggaggctggt gagatgggtg 420
 gtgc 424

<210> 38937
 <211> 437
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-016-Q1-K1-D6

 <400> 38937

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 agccccaggt attccgaaac gctcactcta tctagctaca gagggccccga agtagttctc 120
 ctgtaccgt aggggaagct ccgttctccc acaacccttt tgaattttat ccaccagggc 180
 ccgctggcc acccctactt acacggaccg gaggggaccg acatggaccc ggagagaccc 240
 cgatccatca gagaccgaaa tttttctaac ttggtctaac atacacggac cggggccgaa 300
 ttgaataagg gagttcggg cgtcgggctc gtttaccac gccacaccg ggtacacaga 360
 atcagagaag agcaaacgac gccctcacat aagtatcgac actgagggaa cgctcacct 420
 tcccctaca tctttac 437

<210> 38938
 <211> 267
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D7

<400> 38938

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tggtagccat ctcgctgtgc tcggctcgtc ctatttacga tggccctagt tgtagcgagt 120
cgtactcaga gaatgcctga tcgcagtata gacttcaagg catctaacgg gtactgtcgt 180
acacgttctt gtggtgctgc tgtatagga gtgtctgtct aatagtctcg tgtacctacg 240
tagacgaatg gtacgctatt cgtaatc 267

<210> 38939

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-D8

<400> 38939

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ctccctaagg gatacttatt cctcttagtc ccgtgtcgga acagacgaga aactcgcggg 120
ccttcttcct tagtccgcgc ccgtattaac cgacgagtac cctttagacg acgtcttacc 180
gacctcctc ggtccctgcg ctacattatc cgacgcgaaa atagacggcg cacttctcgg 240
caggatgtca gacccggtac tcagctccga cgcgggtctc gtcgtatttt aagttctagg 300
ggacgtactc ttagacgata gtaacccgag actcgcgtcg ataactgttc cctaaccttt 360
gcacgagacg tattcctagg atagtccgt agtaacggtt tgctaacacg cctgcagcgc 420
tacctcgtc gcgtaaagag c 441

<210> 38940

<211> 444

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-016-Q1-K1-E1

<400> 38940

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cgtccatcta cgttctgagc aaacctgatt atatttagag agtaaccgtt attttaacgc 120
 cccgaacaaa aaaagaaatc ttaatctgac ctacagacct ctatctagaa tcgtcgtatg 180
 ctgtagcgta ggtgcgcgct cggtcctggt tagtcctccc ccccggtcgc gaccgcgtatg 240
 atacccacac ccaccgaaac tccgtagaac tgtccgatga cgaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaagg gtggttgtct cagaggactt aagtccatgc atgtgcgtac 360
 gtgatgctac agtctcctca cagcgctatt caaacctaac ctatcggttg ctgccccata 420
 atgcngcgat cgggaaaatt tttt 444

<210> 38941
 <211> 385
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-016-Q1-K1-E10
 <400> 38941

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 tttgagacaa tgtacaatgg tcacactgga agaaaactga ctgcgatgat tttcctgggc 120
 cccacatatt accaaagact caagcacatg gtggatgaca agatacattc gagaggacgt 180
 ggtcctgtgc agatactcac ccggcaacca gcagaggggc ggtctcgtga tggaggtctc 240
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 gaaaggctgt ttgaccagag tgacgcatac agagtccatg tatgcgagaa atgtgggtctt 360
 atcgcaattg cttaacctaa agaaa 385

<210> 38942
 <211> 457
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-016-Q1-K1-E11
 <400> 38942

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ggacaagctt atcctcccat ttctggacct ggacatcaag tactatgatt tggggatact 240
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caacgtggct attaagtgtg cgaccattac tccagatgaa actcgggtta aggagttcaa 360
tctgaaacac atgtggaaga gccc aaatgg cacaattagg aacattataa atggcactgt 420
gttcagagag cctattatat gcanaaacgt tccaaga 457

<210> 38943

<211> 253

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-E12

<400> 38943

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actcattgcc tggagtttcc tgggagcgga agcgaaggct gtgaaggagg ggaaggcctt 120
gctcgccgcg aagactacgg ctgccaaagc cgccgagaag gacaagggga agaaggcccc 180
aatctcacgc tcctcccgag ccggcctcca gttccctgtt gggcgatatcc accgtcagct 240
gaagcaaagg act 253

<210> 38944

<211> 433

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-C8

<400> 38944

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gaaggttacg gattatgata ggtttccata cggcgaccgg cgacggcggc gaccgaattc 180
cgccatccgc cagtaatcgg taccgaacct gttgagtatg ctggtcaccc tgcggaggc 240
gacgggttat tagtcataca ccctatagga cttaaattctt aagtattacg ggattatggc 300
tcgggacgta ctaacggcgc ccgctaagcc cccggaaaag aacagtagaa aaggctgtcc 360
ccgcttgctt aaatcaaaag gaaagagagc gaccgaaccg ggagtcggtc gtggctcact 420

cgggcctgga acg

433

<210> 38945

<211> 438

<212> DNA

<213> Zea mays

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<400> 38945

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ctaatagagc cataacttcg atcgataagc ccgggtaatt aaaaggcccc gtccatgcgg 180
aaccgcgga agccgaagtc gcctaggaag tcactaagcc gaatgagcta gagccgtatg 240
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gctgaggccc taacttgcac tacggttatt ttcatacgag gttgcacggc cacagcttcc 360
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<210> 38946

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-B4

<400> 38946

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ttctcctctg ctcagactcg agttcttgtt cgtccctgg actagacgtc eggcttgact 180
gaataatggc gagctccgtc tcgccacccg accgcctcaa atgtacggcc ccgccccgc 240
gacgacgct aggccttgac tcgccctgcc cgaccgacga gccgatgtac tggctctgaaa 300
tgaggtcgta cggccccgc gttcggaggc cctcgaccag tgcgccaag gaaatcgggc 360
gttataaccc gccgtcagaa gcgtctgact tgctgaaccg acactcgttg agtcgtgatg 420
ccttggggga ctcc 434

<210> 38947
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-B5

<400> 38947

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gaaaatttcg gtgccattta atccaactgt tccgtagtat actttttccc tgttagtcgg 180
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gcgattgtca tatccgtagg tgtttcagtg tttgtcttcc ctgtccctcc tttccatccc 360
tctgttatgc ctgttggtcc cttttgctaa gtctcaaac tggggg 406

<210> 38948
<211> 423
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-B6

<400> 38948

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cggtagcata acagatatat caaaaacaca cgtcgaaagc tagaaataaa acataacaga 180
gccgcgaaga aggcaccccc gataatcacg tactgcattc actccggcgg tgaaactaat 240
cctatcgacg gactcaccaa tttaaaactc atagcgggaa tcttcgtaca taccgtctac 300
gaggcctcct cggagaagga acataacgga aaggccgtcg acgcgcgggt acgtggagcg 360
atgttacatg cgacgtcgat gactattact ttcgagacaa gaaattactt acggcctccg 420
aag 423

<210> 38949
<211> 224

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-B7

<400> 38949

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 acgtgcaaaa aaaaaaaagg gcacaaacag aaaaaaaaaa aaaggggggg tgtctcacag 180
 gggtttaatc cctacatgtg cgcacacgat agcgcacact cccc 224

<210> 38950
 <211> 290
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-B8

<400> 38950

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 ttcgatacgg cttctcgcaa gtcgaacgtc acgaatgtct agcccctcga cctttaagcc 240
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<210> 38951
 <211> 162
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-B9

<400> 38951

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<210> 38952
 <211> 405

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-016-Q1-K1-C1

 <400> 38952

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 cgctagtacc tcgtaggata agcgccagcg atcgggaggt tcctaggagt actgatacgg 180
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 ctgatgaaga cgaaccgacc gtctcgaacg tccgggtctg cacaggctgt taaataagag 300
 aagtcaccaa gaaaaaaccc tcattcgact catcctaaac acacgaagaa taggccaggg 360
 ttctaccga aggcacgcgc gatagtata cgtccgcgtc gaacg 405

<210> 38953
 <211> 405
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-016-Q1-K1-C11

 <400> 38953

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 aaccgctgct gctattgcct atggctctga caagaaggca accagtgtct gtgagaagaa 180
 tgtctcatt tttgaccttg gatgtggtac cttcgatgtc tccctgctta caattgagga 240
 aggtatcttt gaagttcaag gccacagctg gcgacacca tcttggtggg gaggactttg 300
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<210> 38954
 <211> 145
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-016-Q1-K1-C12

 <400> 38954

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<210> 38955
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-016-Q1-K1-C2
 <400> 38955

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 tgcgggggta gtcacctttt cattgcttga gccccacca cgccacaccc gtacacctct 180
 agacacataa ttcgacctcg ctcgtaagaa gtcgggctta aagcatgtcc acaccttaga 240
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 gatcgccagg tcagcagcaa gtcataacgg ctctagtacc ggtatagcct gagacgtacc 360
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 gaagataccc 430

<210> 38956
 <211> 422
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-016-Q1-K1-C3
 <400> 38956

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 tgggtgcggg tctgggtttg gaggctggt gttcggagga gtgttgggtt ggggtgacta 240
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cgtggccgga gcgttatatcg ggtatattatg ctgatgtggt aggttatatcg aattaaggtt 420
at 422

<210> 38957
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-C4

<400> 38957

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agtccagttt cgataaggat gctcacacgc acagaggcga ttaggggcct cgtagtgagg 420
agcgttggcg gtagta 436

<210> 38958
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-C5

<400> 38958

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agaggaagta agtccatcga ggcttctctgc gatctaccg cgggcaatct caggatagcg 180
acgacctcc gtacctctt aaatgtaggc ctacgcgaat atatatcaaa cataccgaga 240
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ggattaatca ttatcctcag ttgggacctc ccgctagtcc cactacacct accgttcgtc 360
gaagtcgaag aaaccttcaa ctaagcctaa gagaagagat tagctgacat ccacaggaag 420

ggtatcgaaa accccactct taatttctct

449

<210> 38959

<211> 445

<212> DNA

<213> Zea mays

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<400> 38959

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ggtagacaga ttgcacaatc ataggagtat ccgccgctct ggaataaacc gccgcgaact 300
tcgccccgca caacagcccc tccgaacaca agtgaatgca gttcaatagg ttaaagctta 360
cgcaacgggg cccataatag caacaatccg tagagcgacg caagtgagcc gccgagtagc 420
aaacaaaaca tctccgcttt aaaaa 445

<210> 38960

<211> 438

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-C7

<400> 38960

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cagaggactt aagtccatgc atgtgcgtac gtgatgctac agtctcctca cagcgctatt 180
caaacctaac ctatcggttg ctgccccata atgctgcgat cgggaaaatt tcggtgccat 240
ttaatccaac tgttccgtag tatacttttt cctgtttagt cgggtgcaaca gtgaagaggt 300
ttgtattgac tgtttccttt aatagccgtg tagttcgaac ggtgaacggg atgtgtttcg 360
cagtgggtga ccaagtgtgg tgggcgcggc ggccatgtgt agtgcgattg tcatatccgt 420
tagtgtttca gtgtttgt 438

<210> 38961
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-016-Q1-K1-B2

 <400> 38961

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 agagtctggc gaggcgtata gttctgaggg tgatgaggag ggcggttaag gaggaagagt 360
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 tggtgata 428

<210> 38962
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-015-Q1-K1-H7

 <400> 38962

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<210> 38963

<211> 452
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-015-Q1-K1-H8
 <400> 38963

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 cacgtgtgat ggtnntctat ggataatgag tg 452

<210> 38964
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-016-Q1-K1-A1
 <400> 38964

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 ccaaagctat agtattcata gggggg 446

<210> 38965
 <211> 425

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A10

<400> 38965

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 gcaagcgcag gggtagcagg gaggctaggg tccccaccaa gattctgtgg atgaggagga 300
 tgcgtgttct gaagcgctg ctccgcaagt accgtgaggg caagaagatt gacaagcaca 360
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 tggag 425

<210> 38966
 <211> 152
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A11

<400> 38966

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<210> 38967
 <211> 430
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A2

<400> 38967

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ggggacagcg tatacagaaa aatcgccctat cgcggcccac tgagacccca gccgacatcg 240
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<210> 38968
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A3

<400> 38968

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 taatatacag atcaatcaaa tttcgggtgcc aactaatcca acagttcact tctatacatc 240
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<210> 38969
 <211> 292
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A4

<400> 38969

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<210> 38970
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A5

<400> 38970

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<210> 38971
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A6

<400> 38971

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tcgtaagtcg attaaggcgc agaattctga taagtcgctg catgttatcc agttgaactt 420
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<210> 38972
 <211> 435

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 38972

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<210> 38973
 <211> 440
 <212> DNA
 <213> Zea mays
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 ttcgctcaac cctacgtgaa aggggtcata gtcgagccgg tcatgcggca cgagcagtat 240
 cttccaggct tcgaaccag tctcgtacgg gagtaaacc gagcacgact taaaataact 300
 tgtctgctcg ctttatgtta aagtataagc tcaacgtctg gtttcgactg cggacggcta 360
 gtgacgtacg ggctgcggg gccctcaga tccgtgcgat gtcctccag cataacgcct 420
 aaggtagct cgatcccccc 440

<210> 38974
 <211> 60
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-016-Q1-K1-A9

<400> 38974

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<210> 38975

<211> 413

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-016-Q1-K1-B1

<400> 38975

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ggccgcttgt ttcagtgatg ttgagtcac aaaggtataa gttgatacac ggtgggtctag 120

ttctcttcat tctatgtttt cgctatcgag gcgtgttgcg gagtccggta cttttatggt 180

gactcattgt tacgggtggg tcgttctagt tgcgagtcg gctatgggtg cgctctcttt 240

tcttatcaag tcgttgccct cttgttggtc gtcgtgggtc tctgttggtc tgggtgcgcc 300

tattgctgat aagtagagta tggaggagga gtggcattgt actagttttg cgcttcattc 360

ttcggcggat ggtactttct atgaggatta tacgaattat attgnctcgg cgt 413

<210> 38976

<211> 442

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-016-Q1-K1-B10

<400> 38976

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gtcgagcctt ttgaacctag taaatcatgc tacgtctgct ctgagacccc acttggtctg 120

gaggttaata ctaagacaac aaagctccgg gaagtcattg aaaaagttat aaaaagcaaa 180

cttggaatga acctcccttt gataatgggt ggtgccacgc tagtttttga ggatgggtgag 240

gatttggaag aggatgagat tgcaaattat gctttaaac tcgaaaaggt cttggctgaa 300

cttccagctc cagttctaaa tgggtacaaca cttacagtcg aggattttca tcangaacta 360
 aaatgcagta ttaacatcaa acacagggac gagtttgatt aagaaaagga gcctgacgga 420
 aatggttcttg gctggtgggc tg 442

<210> 38977
 <211> 320
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-016-Q1-K1-B11
 <400> 38977

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 tgcaaattgt actatgcatt gtacatactt gtctgattgt aaaatgaaaa ttgcagactc 180
 gtttatgaaa cagcttccgc atctagctgt ggaaaattac tgctgtgata tgccatatcc 240
 tgacttgagc ttttctgagg tcacgtctgc cgttgtacat gataacctgt agcctcacat 300
 accacgctgg tgccccgagc 320

<210> 38978
 <211> 444
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-016-Q1-K1-B12
 <400> 38978

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 gcacccact ccccgagcagg agcggcgagg gcgggcgga ggtcgtaccc cacatcgagg 120
 agcggcgagg gcaccgagg aggcaaaggc aagatgttcg ggcgcgcgcc gaagaagagc 180
 gacaacacca agtactacga gatcctcggg gtgcccgaagt cggcgtccca ggacgatctc 240
 aagaaggcct accgcaaggc tgctatcaag aaccaccccg acaaggcgcg tgaccccgag 300
 aagttcaagg agctcgaca agcctatgaa gttttgagtg atccagagaa acgtgagatn 360
 tatgatcagt atggtgaaga tgcccttaag gaaggaatgg gccggtggag gacccatggt 420
 gatccatttg acatcttctc atca 444

<210> 38979
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H6

<400> 38979

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaagaaa 60
ggaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaaa ataaaaaaaaa aataaaaaaaaa 180
aaacaaaaat ttataaaaact taaaatatta aaaaaa 215

<210> 38980
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G10

<400> 38980

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gttgaggcgc tgcttcagcc tgcacccctc ccttgtctca tagatgctcc ttttgacctt 120
ttcaaataaa tatggatggc gagctcctag gcctctggct tcctggtaga gggcggcatg 180
ccgaaggggc tgctgggtgt ggattggatg ctgggggtgtg ggggttgga gctgtctgtg 240
gcccacttgg gcaccacgc ttctgtccac ttctggttgc caggagacag caagcaaagc 300
cagcaggaca tgaagttgct attaaatgga cttcgtgatt tttgttttgc actaaagttt 360
ctgtgattta acaataaaat tctgttagcc ag 392

<210> 38981
<211> 374
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G11

<400> 38981

ggaagtacac atcccaatca cccgtgtcag gattcactct caggagctgg gtggcaggaa 60

agtcaatagc cctgtggca attgcaggac cagctggagc agggttgcgg tgtctccacg 120
 gtgctctcgc cctgcccattg gccaccccag actctgatct ccaggaaccc catagcccct 180
 ctccacctca ccccatgttg atgcccagg tcaactcttg taccgctgg gccccaaac 240
 cccactgcc tctcttactt acccccatcc atcacctggt tttgactaat gctgcttccc 300
 tctctggggc tggctgccag gatcttgtgt ccctaagtcc ctctctttaa agaacttctg 360
 cgggtcagac tctg 374

<210> 38982
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G12

<400> 38982

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 gtcagatcag gacaggctgt ggatctgtgg cggctactctg aaagctggag ctgcagcaca 120
 ccccttttgt attgctcacc ctcggttaaag agagagaggg ctgggaggaa aagtagttca 180
 tctaggaaac tgtcctggga accaaacttc tgatttcttt tgcaaccctc tgcattccat 240
 ctctatgagc caccattgga ttacacaatg acatggagaa tgggaccccg tttcactatg 300
 ctgctggcca tgtggctagt gtgtggatca gaacccacc cccatgccac tattataggc 360
 agccacggag gacggacagt gcctttgggt tttccg 396

<210> 38983
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G2

<400> 38983

cccacgcgtc cggacccacg cgteccggcac atgttccagg acttaagggt ctacaccag 60
 actcttcaga agatgcccga ggcttgctta aagctgctat tagagatcct gatcctgtta 120
 ttttcttga aaatgaattg ctttatggag aatctttccc agtttctgct gaagtgcttg 180
 attctagttt ttgcctaccg attggcaaag ctaagataga acgtgggggt aaagatgtta 240

ccattactgc attctccaag atggttggt atgctctcca ggctgcagag atactgtcca 300
 aggaaggaat cagtgtgag gtgatcaacc ttgatcgat cagaccactt gatagagctg 360
 ctattaatgc atctgtcagg aaaaccaacc gattggtgac ttgtgaaaaa gggttcctca 420
 acatggga 428

<210> 38984
 <211> 333
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G3

<400> 38984

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 aggagatgtt cacggtggag atcaagaac tccagaggaa gagggaggc ctcttcagc 120
 agatgggcca tccaacgca agcaggcatg ttgagcagtc actcgcggag gtggcagctc 180
 agatcgagtc tgtgacagag aagatcataa tggaggagga gaaggtgaag aagtggaaag 240
 cggagaacct gaggaggaag cataactacg tgcccttcct gttcaatttc ctcaagattc 300
 tcgaggagaa gcagcagctg aagcccctga tag 333

<210> 38985
 <211> 337
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-015-Q1-K1-G4

<400> 38985

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 tggattacga cgaggagatc aatgctgtgc tcaagaaggc ggagcctaata gtcacaaga 180
 tagtgaaca tcgcaggaag tatgagaggt tgagaaaaga gagggaggaa aagagagcgc 240
 agcgtgatcg gcttcgtcaa cgtgcagagg cgcaggctgc ttacgacaag gccaaagagga 300
 aggagcaatc gtcaagtcgc tcatcangag gtgcac 337

<210> 38986
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G5

<400> 38986

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gatcattctt taaacaatgc cttgaggaaa gcgtgattta tcgaaattgt tcccgcaagc 120
aagagagtga atttgttttg agggcttaag gttgtgttgt gcgtgttgga ttggattgat 180
taaaattcgt agtttcgtac agttttgtca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaacagaaac ggaaaaagaa atacaa 266

<210> 38987
<211> 455
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G6

<400> 38987

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cgggatgaat ttgtacagtg tttggtaaac tatgagtgga agggagcggc tgtgaattct 120
gcgaaagctg acgagctggt tttgggcttg acgaatcatg acctattcct gtactttggg 180
catggaagtg gaaccacagt tatttctagt aaggaagtcg agtagataga taactgcgca 240
gctgctcttc ttatgggatg tatcagtggc acacttcatt gcacacgaag ttatgctcct 300
cgagggggccc cattatcata tttataggct ggttcccctg ctatcattgc gaatctctgg 360
gatgtttcag acaacgacat tgacacgctt agtaaggctt ttctcaattg atggctgcat 420
gacaaatctc tagatggcaa caattgttca aaatg 455

<210> 38988
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G7

<400> 38988

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ggtgcatctg ccgctgacgc ggtggtgaca ttgctgtggg tgctgcgcgt ctccacgctg 120
ggggcctcga cgacggcggt gacgttctac ctgaagctgc agggcggtgca cttctcactc 180
ctgggtcacag actgcctaata tccatgctg ctgttcaagt tcaatatact ttgagacgca 240
atcctgggag ctagcttaaa cc 262

<210> 38989

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-015-Q1-K1-G8

<400> 38989

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acgaacctga cgaattggtg ccagagcgtg gatctgaaga tgtttcattt ggatatgata 120
cagcaatgga ttatgatagc cacatgcaga ctactgtgaa ggtggaagat gaaaaaacag 180
aggatgactt gccagttgct gacaatgatg tacagaaggt agagaaagag aagctaagga 240
atgcaaagga tggttcagat aaacgaagga nagatgcctt attgaggagg ttatcggcgc 300
caaggacccc actgaatgat gcacanaaac gtgcacagaa cctgcgtgca tataaggcag 360
accttcagaa actgaagaaa gaacaggaag aagagcaaata aaagcgattg gagaggctca 420
aattggagcg gcaaaaaggag atcgccgcan gaggtaatgg 460

<210> 38990

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G9

<400> 38990

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gccagcctgc ccagcccgtt gcagccgcca gcgcgccccg tcggcagctc tccatctgca 120
cgtctctccg tgaacccgtt gagcgggtgtg cagccaccat gttcagctgg ctgaagcggg 180

gcggggcacg gggccagcag cccgaggcca tccgcacggt gacctcggcc ctcaaggagc 240
 tgtaccgcac gaagctgctg ccgctggagg agcactaccg ctttggggcc ttccactcgc 300
 cggccctgga ggacgcagac ttcgacggca agcccatggt gctggtggcc ggccagtaca 360
 gcacgggcaa gaccagcttc atccagtacc tgctggagca ggaggtgccc ggctcccgcg 420
 tggggcctga gccc 434

<210> 38991
 <211> 345
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H1

<400> 38991
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 caactgttct gactaccgag gggaagtctg ttgagatgca ccacgaggca cttcatgagg 120
 ctctttcggg tgacaatggt ggcttcaacg tgaagaatgt tgctgtcaag gatctcaagc 180
 gtggggttgt ggcctccaac tccaaggatg accctgccaa ggaagctgcc agcttcacct 240
 cccagggtcat catcatgaac caccctgggc agattggcaa cggctatgcc ccagtgcttg 300
 actgccacac cttccacatc gctgtcaaag ttgctgagct catta 345

<210> 38992
 <211> 129
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H10

<400> 38992
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 actcaacaca ttacatcaac ccctcatcac aaactcatct tacttcaacc tcatatacta 120
 tctttctcc 129

<210> 38993
 <211> 415
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H11

<400> 38993

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gcagacaaga ggtccctgcc ctccccagc gagccctgct gttccctggt gagccatgaa 120
gctgaacgag aggagtgtag ccactatgc actcagcgac tccccagcgg accacatggg 180
cttctctgcg acctgggggg gccagggac ccaccgacc ccagtggtgca ctggccgaag 240
atgctggttt gtcctcaagg gcaacctgct attctccttt gagagtcgag agggccgggc 300
cccactgagc ctggtggtgc tggaaggctg cacagtgga cttgccctaa gctcccgtgc 360
cccaagagtt tgcctttgcc atctgctttg atgcccctgg agtgcgcca cacct 415

<210> 38994

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H12

<400> 38994

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ggggacctgc gggggcgagg gggcgagcgg gggctggggc gcgggggccc gaccatgagc 120
cgctgagccg ggcaaaccct aggccaccga gccagcggac cctcgagcgg cagccctgcg 180
ccgcggagca ggctccaacc aggcggcgag gcgccacac gcaccgagcc agcgaccccc 240
gggcgacgag cggcgccagg gagcgctacg atggaggcgc taatggcccg aggcgcgctc 300
acgggtcccc tgaggcgct ctgtctgctg ggctgctgc tgagccacgc cgtc 354

<210> 38995

<211> 462

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-015-Q1-K1-H2

<400> 38995

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gtatgagaga ttcataacat cagcgtaccc atactacacc gnctcatttt caacaatggg 120
 tgctttcttc gtattctcgt ttgtgtacct gtaccacaaa taaaggactc atgggagcgc 180
 acaagtctct ggaggctgac gtgaccaaga tctgtgggca ctgaatgttg tgctataagc 240
 caagagttac ccggcgccaa ttttatggaa ccatgttttt gtactgcaa cttagataac 300
 atttgacgac cgtgaccgca ctcatgggaa atttactcgt gctaggatgt tcgatctggc 360
 cccacttcnt ttttntcttg gaccctttct gatcagcact tgtcagaaac gttacagtct 420
 atagcactga nacgtgattt tggaagtact acacccccag ta 462

<210> 38996
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H3

<400> 38996

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 gcacctattg agctcttccc ctccctcgtg gggtgtgcca gccctctacc ggcgcgcagt 120
 acaggggctg attgggtgat caaaccgcga agatttggtt ttgtgatttg ggagcaggag 180
 gcggtggcaa tatgccttgc ccaactccgtt ttttgttgag ctggatggta gcttggcggt 240
 cctaattttg gacctctggc ttaaaagcga aaaaaatacc cctgcaggaa tataaggcga 300
 gatctactgg aacttcagga acttcgtcta aaagtttccg tgatctgtac aatatgaagt 360
 actcgagcta cttaaac 377

<210> 38997
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-G1

<400> 38997

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 gctggctgct gccccggcgc cgttccccgg gccgcagccg atggccgtgt acagctccat 180

ctggaacgcg gacgactggg cgacgcaggg cgggcgcgtg aagacggact ggtcgcacgc 240
gccgttcgag gccacgttcc gggaggtgcg cgtggacggg tgcgcctggg cgggcaacgc 300
cacggacggc gacgccgcgg aggcgcgccg gtgcagegag tcctcgtggg gc 352

<210> 38998

<211> 444

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E2

<400> 38998

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tcatgggata ctttggaaac ggcaagactg gagaactggt ttagcagaag taaggcggtc 120
aaggaggctc actgtgtcat ttatctgtac agttgcaaac tatgagtatg gtttttactg 180
gcacttctat caggatggga aaatagaggc agaagtaaag cttactggaa ttctcagttt 240
aggggccttg atgcctgcgg aatcgaggaa atatggcaca actattgccc ctggtctgta 300
tgcaccagtt catcagcatt actttgttgc ccgtatggac atggctagtg attgcaaacc 360
taatgaagct cataaccagg tggttgacgt taatgttaaa gtggaaagtg catgcacaca 420
taatgtgcat aataatgctt tcta 444

<210> 38999

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E3

<400> 38999

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gcctgcagta ctactatctc ggttattata tacattcttg caataagatg agatacaaag 120
ctgcatatcg accatcagaa cttctatgtc cactccgtta tgagtgggtt cgctatgatt 180
tagccaagcc tctactggat gccagtcaat actccgttct atctgattat gctacaatgc 240
aagggtgaagt gccccagcct cagatttgtg gtcctctga tgactcttca gcaaaagtgt 300
accaccatga gtctcccagc gatgaggatg aggacgacga cgatgaagat ttcgacaact 360

atgaatcaga ta

372

<210> 39000
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E4

<400> 39000

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acgacgacca agtgcaccgc ctgcgacaag acggtgtacc ttgtggacaa gtcaccgcc 120
gacaaccgca tctaccacaa ggcctgcttc cgctgccacc actgcaaggg caccctcaag 180
ctcgccaact acaactcctt cgagggagtg ctctactgca ggcctcactt cgaccagctg 240
ttcaagagga cagggagctt ggacaagagc ttcgaaggaa ctccaaggt tgtcaagcca 300
gaaagaaacg ttgggaatga gaatgctact aaagtctcaa gcgcctttgc tggcaccaga 360
gagaaatgtg ttggatgcag caagacagtc tatccaactg agagggtcac tgtaataaac 420
actatgtacc acaagagctg tttcaagtgc t 451

<210> 39001
<211> 172
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E5

<400> 39001

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gttttttttt attttttttt aatttttttt tttttcttaa tattatatatt aaaatttatt 120
atttactatt aaaaaatcaa aaaaaaataa ttaaaagtca atccaatctt at 172

<210> 39002
<211> 79
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E6

<400> 39002

gaataacccg gaccgaccca ctcgccgcc caccgcatag tacatttatt attttctttt 60
 ttaccctatc ttcttttta 79

<210> 39003
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E7

<400> 39003

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 atatggtgtc ttatggtttc ttgtctgtcg ctgacaacgt tggcgcttaa gatatttgga 180
 ataggactac accttccata gtttacgttg aactctgtgg tgctgaagca gctgttgcca 240
 ttatggcgga aattgctgac gcctgattga acatgtacag tttttattca gttaaacaac 300
 tggggcaaaaa agttagatgc tcatattcat cacacaaaat tgtacttgctc aggttattta 360
 tatacgttac ctgaatacta tctatcactc taatatatta atcactc 407

<210> 39004
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E9

<400> 39004

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 ggcagaagcc gagttcaaca tcgctcctgg ccaccgactc ctacaagggtt actcactata 120
 aacaatatcc acccaacaca agcaaagttt attcctactt tgaatgccgt gaaaagaaga 180
 cagaaaactc caaatgaagg aaggtgaaat atgaggaaac agtatttttat gggttgcagt 240
 acattcttaa taagtactta aaaggtaaag tagtaaccaa agagaaaatc caggaagcca 300
 aagatgtcta caaagaacat ttccaagatg atgtctttaa tgaaaaggga tggaactaca 360
 ttcttgagaa gtatgatggg catcttccaa tagaaataaa agctgttcct gagggctttg 420
 tcattcccag aggaaatggt ctct 444

<210> 39005
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F1

<400> 39005

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gagatgtact cggatcagat ctccaccggg cgcaagcgtt ccatccatga ccgccttgac 120
ggcgacctcc ctgccggcac gggcgccggc ggccgtgtcc gtcacacggt gtccaagagg 180
caacgacaga tagatgaaaa atggaagcat gatctgtatc gggaagatga tgaaccagct 240
tcaaaatcaa cagatccgaa ggatttgcca ttgaagcttc agaggcgaag ttttcaacaa 300
gattttacca gcacaagaag ttctggtgtg cgtgatctac gtgagaagct atctggtata 360
atgaaccca 369

<210> 39006
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F11

<400> 39006

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gttcaaatta cttgtccact gaatgtcact tgaccttgat aagaggccgc ctgcacacag 120
agcccagtta attctccgca cctcggttgt gtgcttccga atgggctcac tcccggtgtg 180
gtgtttgaga gccacaaca ctacctcata gaccggtctt tgggaaactt tgggtctcac 240
tgttgcctgg cttgagcact ttggtttat 269

<210> 39007
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F12

<400> 39007

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 ggttctaata cccctcccg cgttgtaaaa accacctcaa ttacctctt acaccaaag 120
 aaacaccatt catcctccaa actctaagca tttctacaaa cacaacttt tatttaactg 180
 cttgtgatag actaatcgaa ctctacggtt tcacgtccct ttacaataac acgtacacca 240
 aatcctctct ccttaccat caatcttctt agaacatgca ttgcaacaca aatgctgctc 300
 tcgactacta tgtttcagtc aacaactact cctatgtctt cacattct 348

<210> 39008
 <211> 338
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-015-Q1-K1-F2

<400> 39008
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 tgctctcaat acacgacatg taccacacac catagctact gccacgcta accatgcac 120
 caacaccagc cagactccca cttaaataac acctcactct taaaaatata gaccactcg 180
 acaatcaca gaacgctttg acataccaac ttctggacct acgagcaaca aatattttta 240
 ctgggactat accacctcag attccactta caccctgcat cttctaacca aatctttctt 300
 gaacgatacc cttcactact tgatcaacaa atttgctt 338

<210> 39009
 <211> 213
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-015-Q1-K1-F3

<400> 39009
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 ctaccacacc tctttcaaaa cgctcctaca aatacatcaa acatggacat atgaactata 120
 tactcaacat cataaaccag atttactatc tacacatgag acatacatta tactgacgca 180
 ttatatacaa atttatcatc cacactctat cga 213

<210> 39010

<211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-015-Q1-K1-F4

 <400> 39010

 tcgtccacgc gttcgcccac gcgtccgccc acgcgtccgc ggacgcgtgg gggcggctgt 60
 tcgcggggga gccgacgccg gcgctgctgc gcacgtcgc cgcgtgcag gcgctgtccg 120
 tgggcccgt ggtggacgcg gccactgcgg cgctgcggtc gccggcggtg gccggcagcg 180
 cgctggggcg ggcgcgcccc agggccacgg cgtaccggca cttctgcgcg ggcgagaccg 240
 ccggcgaggg cgcgggcgcc gtgcgccggc tgtggcgcg cgccatgggc gggatcctcg 300
 actacgggat cgaggacgcc gaggacggcg gcgcgtgcga ccgcaacg 348

<210> 39011
 <211> 182
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-015-Q1-K1-F5

 <400> 39011

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 cagtacagcc cgccgcgcgc cgcctctcct ccggctaccg gcggtggcag ccagcggcgg 120
 cgccccaaaa agggcctgcc ccgcacctct tcctctctct cctctctctc ccaccaccc 180
 ct 182

<210> 39012
 <211> 324
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-015-Q1-K1-F6

 <400> 39012

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 gccaacagac tatgcatcag gtcaatggaa agcagggttg ggaggaaagg gagattgtcg 120
 atgaaaggaa gcctacctct taaaaatagc gagccatctg ccaatgacaa gattgatttg 180

aaatgtgaag ttctggacat acgagcaaaa aatattttga gtggccaagt agacagccag 240
 ctacaagtta caggctcaat tttgcgacca gatctttctg gaatgatccg gttgagtcac 300
 ggtgaagcat atntgcctca tgat 324

<210> 39013
 <211> 443
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-015-Q1-K1-F7
 <400> 39013

gcaggccacc tgcaactgcc tcaagagcat gacgggccgg ctcgccggcg gcgtcagcat 60
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 caccgtcgac tgcaccaaga tcaactgac gatggaacca tagtggaggt agctcgctcg 180
 ttggatggca gcgtacgtgg ccatcagcag catgcagtcg tcgtcgtagc agagatgtcc 240
 tagctacgtg tgtgtcatgc atcagactgg cacataataa agaagtagat catgcaccca 300
 ctagtgatca cttcgtctag tgtccctccg ttcaatgtcg tcgtcgtcgt cgtgtacctt 360
 acgtgacatg ctgtagcacg tacgctagca gagcagcacc tcaatgtcct tgggtttgct 420
 ttgctggctc tctggtttcg tct 443

<210> 39014
 <211> 454
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-015-Q1-K1-E12
 <400> 39014

aaatactcca tcagcagtga caactctgac accactgaca gtcacgcgac atctacagcc 60
 ggatcaagat gtcctaaact gccagcagc accaagtcgg gctggccccg acagaacgaa 120
 aagaagccct ccgaggtttt ccggacagac ttgatcacag ccatgaagat cccggactca 180
 taccagctca gcccgatga ctactacatc ctggcagacc catggcgaca ggaatgggag 240
 aaaggtgtgc aggtgccttg ccgggcagag gccatcccag agcccgctggg gaggatcctc 300
 ccaccactgg aaggcccccc tgcccaggca tccccgagca gcaccatgct tgggtgagggc 360

tcccagcctg attggccagg gggcagccgc tatgactggg acgagattga tgctactgg 420
ctggagctca tcaactcgga gcttaaggag atgg 454

<210> 39015
<211> 337
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F8

<400> 39015

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ggcccgtacg tacgtgtctc tttctctctc tcattctgtc accgtacctt tctagagtgt 120
gtgtgttcgt actaattaaa atgttcttgt cgtcgtcgtc tgtgcatgca tgtaccatgt 180
cgtcgtgcat gtctattatg tgtgtgtcgt cgtgtcgatc ggtacgtata gatgcctgtt 240
gttagcatgt gtgtcattac ctatcgtgtg gtagtgtatg tatgtgcttg cggggcaaaa 300
gttgcaccta gctaaacagt agtattactt tttaaaa 337

<210> 39016
<211> 210
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-F9

<400> 39016

cccagccta ccaaaaaaaaa aaacttttat atcaaataat aaaaaaaca aataaacgaa 60
aggttaaaat aaacaaaata ctaaccaaca aaaaaaaaa caaaccacct caccacttaa 120
caaaaataaa cccatctagg atctccatgc agacttgatc tcaatcacat agatccctta 180
cttataccaa ctcattacaa caaactcctt 210

<210> 39017
<211> 444
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-015-Q1-K1-C9

<400> 39017

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ggaagccctc tcaggaaacg ccgccaggac aggaagcaga ttggaggaga aaaaccgcaa 120
tcttcattcg cggaaaatcc aggtgcttat gggagcattt tcacagaata actagaataa 180
cgaggtatgt ggggttttta agcaccgggg tgttaagtct tccttcaaga atcacctatt 240
gctgaaaggt tgtttttattc ggcggaagtt tcaacatgtc agagcagcct gccccgtccg 300
ggacaggttt caccgtcggg agacaacatg cctgtccttc gncctcccag ccacaacgtg 360
tccttctgtg cacgtttcag ctgaaacctt gcatttagtt ttctaactca gagggtttgt 420
caatctttta cctgcgaact cctg 444

<210> 39018

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D1

<400> 39018

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agtagagaaa gatctccaaa aggaagttaa ttctgtaaac cagagactta atattgctat 120
cgaaaagggt aaagaacctt atagacaacc taatattctt gcggaatata tagctttcca 180
attaaaaaat agagtttcat tccgaaaagc aatgaaaaaa gctattgaat taactaaaaa 240
agcggatata aagggaataa aaatccaaat tgcgggtcgt ctagcaggaa aaagaaattg 300
cacgtgccga atgcatcata aagggtagac taccctcca aacaattcgc gctaaaattg 360
attattgctg ctatccaatt cgaactatc 389

<210> 39019

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D10

<400> 39019

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acacatccg caagttctta cccaccacc gcccgccaa caacaccacc acccctacaa 120
ccacccacac cctattcaaa aacacaacat aacaaaaacc aatctaccac caattttcca 180
ccacaaacta ccatcacccc tccataccaa atccccaa cttacctatc caaccctaata 240
actacaaact caaacatata ctaaatttac cacactcact caaccaaata acccacacac 300
ttcacaacaa cctccatacc a 321

<210> 39020
<211> 372
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-D11

<400> 39020

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gtgcggtgcg cagagcggag cggcctcgga gcctgagccg cccggggccg gggccgggga 120
gccgcgcggg gccggccggc cggggggagg ggagcgatgc ggcgccggcg ggcggcagtg 180
gccgcgggtt tctgcgccta cttcctgctg ggctccgtac tcaacgtgct cttcgctccg 240
ggctcggagc ctncgaggcc aggccagtcc cctgagcctt cgccggcccc ggtccggggc 300
cgtcgcggag gccgagggga gctggcccgg cagatccggg cgcgctacga tgaagtgcag 360
cgctattccc gc 372

<210> 39021
<211> 352
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D12

<400> 39021

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gcaaactggt ctgctactac accagctggt ccagtagccg ggaaggcgat gggagctgct 120
tcccagatgc cttgaccgc ttctctgta cccacatcat ctacagcttt gccaatataa 180
gcaacgatca catcgacacc tgggagtgga atgatgtgac gctctacggc atgctcaaca 240
cactcaagaa caggaacccc aacctgaaga ctctcttgct tgtcggagga tggaactttg 300

gggtctcaaag attttccaag atagcctcca acacccagag tcgccggact tt 352

<210> 39022
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D2

<400> 39022

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cttagtctct tattagctct aggtcttagc tagccgcgcc actccttcgt gtagccatca 120
gccttctcat cgccaccaat ggccactgcc gaggtccaga ccccgaccgt cgtggcgggc 180
gaggaagcgc ccgtggtgga gaccccgccg ccggccgctc tgcccagga gtctgcccc 240
gccgaggccg aggcgagggc cgaggctgct gctcctgctg atcccagga gcttcccgcg 300
gccgagcagc atgcagccgc cgaggcggag gccgcggctc ctgctggtgc cgaggagccc 360
gtcgcggccg aaccggccgc cgaggcggag gctgctgctc ctgctggtcc cgaggagact 420
cctgcggtcg 430

<210> 39023
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D3

<400> 39023

gccggatcta taaccctagg tgcagcggcc tagattgcc ccaagcgctc ggctccacct 60
gcggcgactg acctcccggg tgcctcctac gaggagaccg actatggttc gggctcctac 120
gaggaggagg aggacgatga ggacgacgat gatttgtaga ccgatctctc accgtctacc 180
gaagatatcg agagcgatgc t 201

<210> 39024
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D4

<400> 39024

gccacgcgtc cggtagcata tgtatctgct gttcaactct tcaatcaacc taaaagaacg 60
agtgggtggaa gcattgataa ggaatcaatc cataaggacg tgacatgtga aacatcttca 120
cagctgaacc tgcccccaat attcgcaaga gctttttcca aaacaatatg ttccagtaaa 180
taaaccatct actctgcgta ctgaagatga tcaacagtca gcagatgggg aactgggtatt 240
cgaatttttt gaatatgaac agccatactc acggcgacaa ttatttgaca aggtaaatga 300
cctgattgcc ggagccaaac cgtcaaactg ccaaatatat ggcgacccaa acaatctgga 360
ggccagcctg catgatctcc atccagcgtc ttggtattgc gttgcatggg atcccatata 420
ccggatacct ga 432

<210> 39025

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D5

<400> 39025

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cgaagccgcg caagtccggc ggtggcaagc agaagaagaa gaagtggagc aagggaaagc 120
taaaggagaa ggtgaacaac gcggtgctgt tcgaccaggc tacctacgac aagctgctct 180
ctgagggtgcc caagtacaag cagatcaccc cctccatcct atccgagcgc ctcaggatca 240
atggctccct ggctcggagg gctatcaagg acctgatggc gcgtggcctc atccggttgg 300
tctcggttca ctcaagccag cagatctaca ccagggaac aaatacctaa ggatgggatt 360

<210> 39026

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-015-Q1-K1-D6

<400> 39026

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ttttagctgct ctagctctag cctctagccc tagctagtag ctagccactc ggctcgtgtag 120
 tcatcagcct tctgatcgct acccatggcc actgccgagg tccagacccc gaccgtcgtg 180
 gcgaccgagg aagcgccggt ggtggagacc cgggctccgc ccgcccgtcg gcccaggagg 240
 gctgcccccg ccgcccaggc caaggtggag gagccagctg ccccggcgga gaccgagcca 300
 gctgccgncg ctgagcccga ggcgcccccc gtggcgccgg aagaagagac gccaaaggag 360
 gaagagacgg caaaggaggc ggagccggag cgggagccgg cggcggctga agaggtgaag 420
 gaagaagcgg cagcgcccg cgtccgagaca gaagcagaac c 461

<210> 39027
 <211> 404
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-015-Q1-K1-D7

<400> 39027
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 caagccatcc ggacatgccg gaagcagatt cggatgggag ctgatcaggg acgacgaggt 180
 ggccaggcgg gcttttagagt acctgaggga cagcaacatg ggcgcgctgc gggacaccca 240
 gctgcgggatg ctgggggatcg tcaagttcat gctggccaac ctgcgcggca aggacgacat 300
 cttcgccttc ggccacgacg tgatgaggag cangtggctc aagctgagcg cccgcgtgtc 360
 gcggaccgcg cgcacacgc tgcagaagat cngcgcccag tact 404

<210> 39028
 <211> 456
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-015-Q1-K1-D8

<400> 39028
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 gaccggtgta cgccattggc cactcatgt cgcagcaaca ctgagttgac gaaggtggga 120
 aggaagaagg atcgggctcc cccgttgctt ggcttgacga gcagccagcg cggctctgtg 180

tgtacgtcgc gttcggcaac cgctgcgccg tgagccatga ccagatcagg gagatcgccg 240
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 gggacgacag cgccgtgctg acggaattgc tggcgagggg gttcctggag cgagtgcagg 360
 gtcgcgccct cgtgaccaag gcgtgggtgg accaggaggc cctgctgaag caccgggcca 420
 tggggctggt tctaagccac agcgggtgga actcgg 456

<210> 39029

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-D9

<400> 39029

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 gcaacttacc gccaaggtta ccgtagcagg ggacctctc gccacgacc tgcccagca 120
 gttggagagg ctgaagataa agaaaatcag caagccacca gtggtccaaa ccagccgtct 180
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 ccttcacaag atggcaaaga ggccaaggca ggtgaagcac caactgagaa coctgctcca 300
 cccaccagc agagcagtgc tgagtaacac caggctctc aggcacctc accatcggca 360
 ggtgacctaa agaattaatg accattcaga aataaagcaa aaagcaggcc acaaccttaa 420
 ccaacaccaa agaaaca 437

<210> 39030

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E1

<400> 39030

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 gatgatcttg accagcgatg gcaggaagcc actggagagt ctgtttctga ggtcatattc 120
 ctgagcaaac aactgcagt ctccaaacgt ccagcactca cagtgcattc aattgggtgtg 180
 ccacatctga aggaggatga aacccccccc caaggaggaa ctctggatg ggcagcaatt 240

ccaagtcctc gaattggacc ttggctccgg ttgatgcaaa agatagctgt agaacaaggc 300
 cttgttccag agtttgaggt tacgcttgag gctactcacc at 342

<210> 39031
 <211> 435
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-015-Q1-K1-E10
 <400> 39031

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 ggccaggcgg ccacagcagg actggccaca cccacgccgc acctcatccg tgcacgcgtc 120
 ggagcacggc cagccttccg ccacgagcca gctgggaagg gccgcggctg cctaaagccc 180
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 ggaggaggcc agatgcggcc agcgtctcca acagggtgac catccgctcg gcttgctgag 300
 cgttttaaca aatgtttaga caggctgtgg ggactcccct gatttgagcc ctggccagn 360
 gtccggtgct gtgcgggaa acctncagcc tttttcttca aaccactcag ctcatgtgtt 420
 ttgcactgac tagta 435

<210> 39032
 <211> 441
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-015-Q1-K1-E11
 <400> 39032

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 gcatctcttg gtcccaataa ctgcctctag atacatagcc atactgctag ttaaccagc 180
 gtccctcaga cttggatgga gtttctggga gggtagaccc aatgatgca gatacttgta 240
 tactttgagc cccttagcga cctaaccaaa ttgtaaaaat actatttacc aaaggtgcta 300
 ttactctgta aaacactttt ttttggcaag ctgactntat tcttcaatta ttatcattat 360

attattgctt tttaatattn tattttcttg actaggtatt aagcttttgt aattattttt 420
cagtagtccc accacttcat a 441

<210> 39033
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-C8

<400> 39033

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atcatctaca ccaaagacca ctttcatagt ccagacatca accttcacga cgaccgctta 180
atcaccatt gtgcagacat caacgactgg cgcattgccc gagcagtcta ctcccaccaa 240
cgcccaagcc cataccaacg ctgctactac tgctcatccc 280

<210> 39034
<211> 336
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B2

<400> 39034

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gtctgctcct cagttacccc gtgtccatgg acatcggcgg cagcggcggc atcatattgt 120
cgcccggatc ggaggatgat aagtttgccg ggaggcgctc ccgccgtgtg agcttcgcgg 180
acaccaccgc ggtgcacgtg ttcgaccgcg acgaggactt cgagacgcct tccgaggagc 240
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ttgaggacga cactgaggag gatttcaacc gcccc 336

<210> 39035
<211> 353
<212> DNA
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<223> Clone ID: LIB3069-015-Q1-K1-B3

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tccaattagt ttcctgcatg tttgttgagg attcttcaaa agggttccac aacgccagtg 180

atgaacataa gtatgtagac aaccagagtt ctgttactgc cttttctgga aaagctctag 240

tgagggcact agaaggcgaa agggaacttc taaaagtaac aacagcagtc cacaggcaaa 300

gcgaactgag tctaataaaa aatacaacgg gtcaattaat tcgttgccct gtt 353

<210> 39036

<211> 321

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B4

<400> 39036

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aggacgacca ccacagggcg tcccttccgc accatactga ggcgcaagta caggccgcag 120

ctggtcatag ctctctcgt acccttcttc aaccagggtca ccggcatcaa cgtcatcaac 180

ttctacgcgc cggtcatgtt ccggaccatc gggctcaagg agagcgcgtc cctcatgtcg 240

gccgtgggtca cgcgcgtctg cgccacggcc gccaacgtgg tggccatggg ggtcgtggac 300

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<211> 284

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-015-Q1-K1-B5

<400> 39037

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cggttgtttg tttcgtttct atcagatatt aataatctaa aatggtgtgc agcttaggtt 120

aaaatcaaaa aaaaattgtc gggcggataa tacaaggcct acaacagaag gaataccctt 180

tgtgcgacag gcgaacagct gtctctatct ctctctgcag tggtatttgg tttattatat 240
gcagttgcag gggagaaaac taangcatgt tcaactgcagc taga 284

<210> 39038
<211> 427
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-015-Q1-K1-B6

<400> 39038

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tgtaatacaa atgcaatgta cacaggaat ctacaaaact tctgctctaa gagcaagtcc 180
ttcgggattg tgtgcctcga tgtcaacatg tttaatccca ggcacaagct tttggatctc 240
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catgaccctt agcaattccg tatcatcctt ggacattgca gcttcccga actgttttgc 360
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aatttca 427

<210> 39039
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B7

<400> 39039

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ggctttggat gtctgccaga tgtggtaaca tacaataccc tggtgaatgg gctctgtaag 180
cagcacaggt tgcttgacgc ggagaaactt ttgaatgaga tggaggagag aggggttaca 240
ccagatttat gcactttcac aactttgatt catgggtact gtaggcaagg taacttcgag 300
aatgcattgc aattgtttga cacacttgtg cgccagcgtt tgaggccaga tgctcgtgaca 360
tacaataggt t 371

<210> 39040
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B8

<400> 39040

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gcttcttgct ctgcgtcgtc gggctggcct tcgtcgcgcg gtgctcgcgc ctgtgcaacc 180
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tgccggcgcc gcgcaagggg gtcgacaggg ccgtgctgga gaagctgccg accgtgccgt 300
tcgcgttcga ggacgaggac gtcaggacg gcgagcggtc ggagtgcgcc atctgcctcg 360
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<210> 39041
 <211> 424
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-015-Q1-K1-C1

<400> 39041

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tctggatcag caccggcatc gccgcgacaa ggatgtcgac cccgaggcag cggcatacct 180
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atgacggtcg cgcccacgcc cacgtncacg tagcctccga tcgcaagggt aagaatggca 360
atcaggaagc agcagcaatg aagaacctaa atctattttg cccaagaggg tgttgatgct 420
ataa 424

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<210> 39042

<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-C10

<400> 39042

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cgcgaccctg gcgggtcccg ccaagtcgcc ctaccagctg gtgctgcagc acagcaggct 180
ccggggccgc cagcacggcc ccaactgtgtg tgctgtgcag aacgttattg gcactaatag 240
gaagtacttc accaactgca agcagcggta ccaaaggaaa atctgtggca aatcaacagt 300
catcagctac gagtgctgtc ctggatatga catgggtccat ggggagaacg gctgtccagc 360
atccctacca ctgtcaaacc ttacgagac cctgggagtc gttgg 405

<210> 39043
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-C12

<400> 39043

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aatctcaacc cccaactctg cctgatgccc tttatcttgg gcctcttgct tggagggtgtg 180
accaccactc catgggtcttt ggcccggccc cagggatcct gctctctgga gggggtagag 240
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tctagcttct acccgtaacc tgtgcataca cgtacctgca gatctacgga gtcctggagc 360
accctgaata ctcaagacca aaatactgtc aggaaggca 399

<210> 39044
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-C2

<400> 39044

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ttctcatcgc caccaatggc cactgccgag gtccagaccc cgaccgtcgt ggccggccgag 180
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<210> 39045

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-C3

<400> 39045

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taccaggcac aacaaagggt acagaaacac cctgagaata gctacactgg aagagatccc 180
gcacaagctt ctacggagca tcaatacact ccccctaagg caagacaaag tcaatgggat 240
cgagggtggac caaatgtgcc aagccagggt ccatcatatg tatatataac gaaggttatg 300
gctccacctt tgcaccaact gctgcagcgc ctac 334

<210> 39046

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-C4

<400> 39046

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gtatagttct gagcatcatt tcaatgctct ctagtccgaa tgacgagtct tcagcaaata 180

ttgaagctgc caaggattgg agagagaagc gggatgagtt caagaagaag gttaggcaat 240
 gtgtccgcag gtctcaggaa atgctgtgaa ggaggaacat gggggagttg aatgagtctg 300
 caatcgggtg gctgcaattc acaaccaatt atctcatgcc atcattcttt tggtttcccc 360
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<210> 39047
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 39047

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 gaggggtaac actgctaatt ttattcggtt cttccctact caggcttga actttgcatt 180
 taaggactac ttcaagaggt tgttcaactt caagaaggat agggatggct attggaagtg 240
 gtttgctggc aacctggcct ctgggtggtg tgctggtgct tcctctttgt tttttgtgta 300
 ctccctggac tacgcgagaa caaggttggc taatgacgcg aaggctgcca agggaggagg 360
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<210> 39048
 <211> 445
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-015-Q1-K1-C6
 <400> 39048

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 gactaccata caaaggtagt ggaatggacg attcagatta agggagcgaa agttagttca 180
 gctaaattta tagccagcca ggattggatt gtggcgggta ctaccgtgg attccttcac 240
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acgtcttttg ctgttgacga tgatgccctt gagctggtgc tgtcagcgtc catcgatggc 360
aagattttga tctggagcta ctggcactac taccgcgcac gtagaggtag acgtagtacc 420
tggcattttg aaaaaacatt tgacg 445

<210> 39049
<211> 441
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-015-Q1-K1-C7
<400> 39049

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ggctaggagg tttatgatct atgttcatac caaatgatg atagtggacg atgagtacat 180
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ccatggcttc cggatgtcta ttaggtacga gcacctgtga atgctggaag acgtcttgca 360
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<210> 39050
<211> 343
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-015-Q1-K1-B12
<400> 39050

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gccacgggcc tgggtgttcat catcgtggta gtcaacatct tcatcacggc cttcggagtc 300
caaaagccct tgatggacat ggcacccag cagtatgaca ccc 343

<210> 39051
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-G11

<400> 39051

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aagtctatct agggagaagt agtgtcgtag tagcagtcgg caggcggcgc caagaccgca 300
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gacgttgccg atcttttgac gtagtacgct ggcaactcgat catcgaaccc gagatgggcc 420
tctctggacg cccctct 437

<210> 39052
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-G12

<400> 39052

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gagaaggggt tcttcacgag gacactaaga aagtcaccaa ggtcgtcctt gagggcttat 120
ctaagggcac tacgggccac gcggaagagg actcggccct cattgatccc tccggcgata 180
gtaggctgag tactcctgat gttaagggtg ggactgtct 219

<210> 39053
<211> 456
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-014-Q1-K1-H10

<400> 39053

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atcatatgcg taacggggcac gaacttaagc cgcgagagtg caagaggcga atacagtaat 180

tagcacgaaa tcatccaagc cgacggaaga gtagcctttc cgtcacgacgac gacacccccac 240

tgaaacgtac agtaaaagtc acgcgatcag aaaaaaatgg aaataactcca cagccccgaa 300

cggagatcca atacccccgc ggtcaggata ccgggtcaca ctccgtcatt cntctatccg 360

gtataaaciaa tcctaccgc cctttagaga tcgccaccaa cgtcccgtag gaacatatac 420

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<211> 427

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-H12

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ctcagacacc ataataccta cttagtacga aatcgccgcg tcgaccctcc gaatcacaca 180

ctacgccaca agtaacaaaa aaactcctct catccgaacg cgtcagaccg attacattca 240

ggttccccgc cttcctaaaa tcaaaccgat tcacaacgcg cgataaaggg agcatcgtct 300

aattgaccca cggcgccccg agtcaaacac acgcgtttcg ccagcatcg acctaagcac 360

aagccattcg accagcgaat tttagattaa ctttttagcag aacttcgcct accaggagta 420

cggaac 427

<210> 39055

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-H9

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<210> 39056
 <211> 415
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-015-Q1-K1-A1

 <400> 39056

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 cgtagcacca aaaaagcag ccttggcgcc acaggcctct gctgcgccgn caactacagc 360
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 <211> 341
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-015-Q1-K1-A10

 <400> 39057

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ggactgatcc cgcgcgcggc gccaccatgc ggcagaaggc ggtatcgctt ttcttgtgct 120
acctgctgct cttcacttgc agtgggggtgg aggcaggtaa gaaaaagtgc tcggagagct 180
cggacagcgg ctccgggttc tggaaggccc tgaccttcat ggccgtcgga ggaggactcg 240
cagtcgccgg gctgcccgcg ctgggcttca ccggcgccgg catcgccggc aactcgggtg 300
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<210> 39058

<211> 348

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-015-Q1-K1-A2

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gcctcggcgc cgggggggctc tgtcgcgcca ccgacaacgg cgggtctcggc gccgcaggcg 240
tctgcacagc cgccgacaac agtcgccgcy tctgggcctc aggcctcggc cgtagcacca 300
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<210> 39059

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-A3

<400> 39059

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ttgagactga cagagcgta tctcgctgca ggaaaccagc aagcctgctg ctgctccagc 360

tatgaaagta ggtgtcgtgc catgagtgc tcttgacctg cagtgtgcat gatcaccttt 420
cttggaattt ta 432

<210> 39060
<211> 346
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-A4

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ctggtgtaca tctgcgagtg caacggcctg cccgaggtgg ccaactactg gaagcaggtg 300
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<210> 39061
<211> 381
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-A5

<400> 39061

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acagaatttc atgaaattcg aggaattgga aaatcctcca gccaaaacag gctctggacc 180
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gaggggcaca catatgcaca c 381

<210> 39062
<211> 428

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-A6

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 cgaacaatca gaaagaatac tgcaggatgc aaatggaaat ggccagccaa tccatcagtc 180
 ccagtatctt ggtgagacca gtataggcaa tgccacgccc gctcaacaag agaccagtaa 240
 tggcaaggcc tcacatgctg aacaatgttt tgaggggtca tctcaccaa aagagcatgc 300
 aaactcttta agaaacaaac gccaaactga agaagataag tttcagaaaa tgcttgctaa 360
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 ctggaggggc agtaacacgc agaatcaaaa ccatggcagt atttgttggg agttgtatatt 180
 gcttttgctc catgtagcct ctactccaaa acactttctt gacttgatat gatgctgtat 240
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<210> 39064
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 <212> DNA
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<223> Clone ID: LIB3069-015-Q1-K1-A8

<400> 39064

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agcttttgga gtacgaagcc tgtttcgtca gtggctgtct ctgtgctggc tgatcccaga 180

gaggctggcg atggggatgg tgaggaagg atctcttcaa aatcattgtc ccgcatctta 240

gttgctgttc ttatagatag tgttaagtat gttacgtact cttgtgtcct gccgttcaaa 300

agccatagcc ctcaccttta ggtcttggtt ttggacgtga gttgataaaa gctgacctat 360

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<210> 39065

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B1

<400> 39065

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gtgcctttct gggagttctt gtttgctact ttgattggga aagccatcat caagactcat 180

attcagacac tatttatcgt gtccctgtgc aacaatcagc tcttgtatct tattgaaaag 240

gagttaatct ggatatttgg tcacgttcct gggttttctg ccacccttcc gtctgtgatt 300

gccagactcc atgctgccaa ggacaagtat ctatcaccac cagccccagt ctcaccgtca 360

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<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-B10

<400> 39066

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aacactagtgt ctcaatatgt caactctgac atgggtcagtt gttatcactc tggaaagaca 180
 cgttcctctt gccacagagg gcatgactct agtgcataac aattacactg ggtatgatta 240
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<210> 39067
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 <223> Clone ID: LIB3069-014-Q1-K1-G10
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 ccgagccatt aagggaaccc ccgcgcgacg tcgacaaaag acgcaatcga acgccccacc 180
 acagcccaca ttaccggaat tgcaccccca ccgtctgtta aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaataa aaataaaaaa aaaaacgaca aaaaaagat aaacataaca 300
 ctctataaaa caaggatagc cattaccgaa agc 333

<210> 39068
 <211> 460
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 <223> Clone ID: LIB3069-014-Q1-K1-C9
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 taaaaattaa cgccggtggc aggctactcc tataaagtaa cggctgtgga ctatataagc 180
 ttaataagtg cgaaaagtct gatcctaact actcaagatt gaagaaacga aaaacggcgc 240
 ctgagccagt ctccgcatct cggccgcagt cgcatttaac cggttactcg tcgcgccccg 300
 ctgaccacac tcagagagtc ggcaattacg cttacgcgat tacgcggtac gtacctccag 360
 cgagaccacg cggcgccaac taccctctcc ctaccgacg cgcctcatct aatcatctcg 420
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<210> 39069
 <211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-014-Q1-K1-D10

 <400> 39069

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acgtatcccg ccgttcatag ttcgcaattc atcattatat taagtcaact cgggcgagggc  180
actttgcgtc tagtgatca ccgaagttgc ggagaagtcg ccgtcgtagg ggacgggcct  240
agccaccgaa cttaaggata ccaccggaac tcataggatc ttaccaccgg acgattatgg  300
ataagcttgc cattacacct attaaaagta agcataggcc attggacgct actgcggaaa  360
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gaacggcgcc cgtaagccga caag                                         444
  
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<210> 39070
 <211> 435
 <212> DNA
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 <223> Clone ID: LIB3069-014-Q1-K1-D11

 <400> 39070

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ccattataag atcgcggcgt ttgagagcag tagtaatacg aactaagatt cgtagaatga  300
ggagctagta ataatcctcg acgcgaaact cgcgtcggtta aagcctctat agactaaccc  360
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<211> 413
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<223> Clone ID: LIB3069-014-Q1-K1-D12

<400> 39071

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ggcgcgtcgc gtcctcccg cgcgcggcgc cttaccctt ccaatcccta cccggtacta 180
ccccgttagc cccacgtccc aaaacgccaa ctgatcgccc ggcgtagtc gcccgccgta 240
atacgtgggt tagtctgaga cattagcgta ggccacgccg tccggggata tcttatctcc 300
gccggattcg caagccgatt cgagaccctt acccatcctt tcccagcctc gctagcgatt 360
accgtccact cagtccttag atcgacatca cgtattatta tacaatcaac ctc 413

<210> 39072
<211> 185
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-D6

<400> 39072

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cgcgcttcgg agccttacc cttccaatcc ctacccggtg ctaccctgtt agccccacgt 180
cccaa 185

<210> 39073
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-D7

<400> 39073

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 aaaccctag gataaacccc taaaaatcgc tacttccc 398

<210> 39074
 <211> 475
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-D9

<400> 39074

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 agctcgacgt tccggaacc gttctagaag caggccattt cgccgcggt tgcttactac 240
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 ctgtaattgt ggcgtaagca gacttagaaa ggttcgcccc agcgataaa cactcaaccg 360
 acgtagccga aaccgacgcc gacgtaccgg tcgatatagt cggaacgcc gcgaccggcg 420
 gaaccacgga gtacactgag taggtcggca catacctagg cgacctagta cgcct 475

<210> 39075
 <211> 264
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-E10

<400> 39075

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 cgccttacc cttccaatcc ctaccggta ctacctggt agccacacgt cccaaaacgc 180
 caactgatcg tccgacgtta gtcgccgctc gtaatacgtg gattaatctg agacattagc 240

gtaggccacg ccgtccgggg atat

264

<210> 39076

<211> 372

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<223> Clone ID: LIB3069-014-Q1-K1-E11

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ctacagtccc ctacagggc tattcaaacc aaaccaatcg gttgctgccc cataatgctg 240
ggatcgggaa aatttcggtg ccattttaatc caactgttcc gtagaaaact tttccctgt 300
tagccggtgc aacagtaaaa aggtttgaat tgactgttcc ctttaatagc cgtttaattc 360
gaacggtgaa cg 372

<210> 39077

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-E12

<400> 39077

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<210> 39078

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-E9

<400> 39078

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gagtcgcatt gtcatactcg tgatattaag ggtgttcctg cgtagttcgt ccctcatgag 180
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tagggtgata aggtgctgggt ttcgtctgcg gatcctcctg ataagcgta ggtggatttg 360
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<210> 39079

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-F10

<400> 39079

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gaggagtaag gttacttaag cagaggctcg caagtaagta tgattggaga agcccgagac 180
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<210> 39080

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-F11

<400> 39080

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cgactcctag acgaagacgc atcaccatga ggggacggag ttccggagtt tgaagaaaaa 180

gacgttcggt gacgcgttgg agggagtgtc gtcgacttgg gaatatatag tgatgattaa 240

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gcgggttaaa atggctgatg agactgcgga g 451

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<211> 422

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 39081

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tcactctata gtactcgta cgccttgagg aaagacgagt attaaggagg cggatgagta 360

aacgactaac gcttagaata agaattctgcn tcactctgag gagcggactt ttaataacgc 420

ga 422

<210> 39082

<211> 445

<212> DNA

<213> Zea mays

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<400> 39082

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aagagcagac gccgctcgcc cgtaagaaat aaagccggct aaccgtgact gttgtatagc 360

cccgctaacg ccaggtgtcg acctcgataa caatcctacc cgctcgtttc tggccggggg 420

aagcggcggg gcgtcgaccc tccgg 445

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atacttagtc cgtctctgcc gccgtcagga agtctaaaga gtctaagggg atcaggctcc 180

gcacagcgcc ctctgactaa ttcgaaaaat gcagggtact agagccgcct aagatagtca 240

cagatatgac cgagggcgca attactagtc tttcggacga cccatttatc gatttcgcta 300

atagtcctcc taaactaaca agaaatattt cggaccccgga tcctctagac gataacgaag 360

gcagacggaa actcgacgaa ttattactgc cacacactcc tactaatagt agtatgtgcg 420

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H5

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 aaaacgaccc gcga 434

<210> 39085

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H6

<400> 39085

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<210> 39086

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H7

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 <213> Zea mays

<223> unsure at all n locations
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 <211> 272
 <212> DNA
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<223> Clone ID: LIB3069-013-Q1-K1-H9

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<211> 193

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-A10

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<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-A11

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 gtggttgtct cagaggactt aagtccatgc atgtgcgtac gtgatgctac agtctcctca 180
 cagcgtatt caaacctaac ctatcgggtg ctgccccata atgctgcgat cgggaaaatt 240
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 gtgaagaggt ttgtattgac tgtttccttt aatagccgtg tagttogaac ggtgaacggg 360
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<210> 39091

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-A12

<400> 39091

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ttttcttttaa ttaaagattg acggtgttta aggttgagaa gaagtttgtg gtgaagaagt 120
tggcggagga ggagtttgtg gctgagaaga tgattgttgg gaagaagttt aaggtggaga 180
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agaagggtaa gaagagtgcg gagatgcata agactcatac tcctaaggcg tcgaagtagg 300
cgtatttggg tactgggtact cttcttaaag ttacgcttac tacgaatctt cctactaatg 360
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<210> 39092

<211> 132

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-A2

<400> 39092

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<210> 39093

<211> 385

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-014-Q1-K1-A9

<400> 39093

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agtggctgtt gcggcggttg tggcgctgct gtcggtagtg gtgggtgatga ttctggaggt 180
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<210> 39094
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-B10

<400> 39094

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tgcggtcgta gtaggtggtg gaggtgtgtt tttattatac ggatattgat agtagtactg 180
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atggtagtcc tgaggagaag tcgtgttggc ctgaggcgcc taaggataat tcgtattata 360
ctgatgaggt taataggaag gaggtatta gtcacgggtc 400

<210> 39095
<211> 448
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-B11

<400> 39095

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cgtccccgga gcctggccat acgttgga aa gtaggtagag gcgtcgaact aaaccgctca 240
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catcgccttc taggctgcgg ttggccgtac ttccggaact tctacggctg ctgccacgtc 360
cccgtctctt gggagggtcc agctaagcgc cgcctatttc aactctgtc ggcgacgggtc 420

ataaagtaca aaaatacgac ctcttttac

448

<210> 39096
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-014-Q1-K1-B12

<400> 39096

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cctcgcgagt tatccagtac cgatcacgac atatcgtaga tcaccacggt gtacgagccc 180
tagtcacccg atacgcgtta gtagtactca acggaaagcg tagtagatcc atcagaccca 240
tagagactcc accagtaagt cgtaggactc atactcgaac ggaggcgtat gtccatcagg 300
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gacac 365

<210> 39097
<211> 430
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-014-Q1-K1-B9

<400> 39097

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gatgatcccg atgacgtcga aggtgggtctt aagtcggaat gacctctatg ggagatgtcg 180
gacttactac cgctacggaa ggatgcggag cgggtctaagc ttactattag ttcgttgacc 240
tcgtctaagg gtactgctat tgtggaagat gtgaggaagg ttgcggaggt ggggggtggtt 300
ggtcgcactg cgcttaatta tgggtgtttgg tagtcggatc acgtgttggt tattactctg 360
gtgtctgaag aggcggccaa ggtggcgggtg gnggtcgcgt tggcgctcggc ggatggtggt 420
gcttggtgtg 430

<210> 39098
 <211> 404
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-014-Q1-K1-C10

 <400> 39098

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 aatttggaac ttctttttat gcgtgcttct gttagttttc atgctagggt ctctcctatt 180
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 attgatacgc ataataattaa tttggatggg attagggatc attctcttgc tggtagcggt 360
 ctgcgtttaa tgactcatgt tcctcctggt gctcgtcacg ctgc 404

<210> 39099
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-014-Q1-K1-C11

 <400> 39099

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 cggcgaaacc agcgtcgaaa cgtctgctaa ttccgggtgc ttccgggcta cctccggata 180
 tctcgaaagg agagtctcgt cgggagaact aaacgagccc gccggagata aggccgtccc 240
 cgtctcgctc tagggatcaa aggctaccgt acgcgccggc gagatttccg aggagagggg 300
 ggtcggccta attacggacg ccgccgtcgt ataaataaaa gtaaccgtcg agaagactaa 360
 ggatcggagt aatgccgcct ccgttcacga attagctcgg gtcaccggaa tcggtaa 417

<210> 39100
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-013-Q1-K1-H4

<400> 39100

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aaaaaaaaaa aaaaaggga gggatgaccc aaaagaatat acaacaataa atatgaatac 120

ttaattatac agtctaccac acaggggtat ttaaaccgaa gttatcgggt gttccacta 180

tatatccgaa atcgacaaaa ttttcgcggc cttattataa acggttcctt aggataccgt 240

tccacaagtt accgttgga aaatttacag gtt 273

<210> 39101

<211> 414

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G10

<400> 39101

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gcctttctgt tcgtatcctc ccacggctgg tcccgtgtta tctattctgt gcggtctgta 180

gtagcattgc gtctctatcg ctttcgagtc aatttagtag acgcgggacg ttaagaatac 240

gacgcgcgtc gtcgatttgt gctacggttg tcaactctata gtactcgtta cgccttgccg 300

aaagacgagt attaaggagg cggatgagta aacgactaac gcttagaata agaactctgct 360

tcactctgcg gagcggactt ttaataacgc gaagcttagc gcccgcgaca cttt 414

<210> 39102

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G11

<400> 39102

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attgctcgat tacggcaaaa tcggcagaag taataaagac gtgcgaggaa tagacgaagg 180

ttgaagtcta tctagggaga agtagtgctg tagtagcagt ccgcaagcgg cgccaagacc 240

gcagtctccg tcactagcgc caactgccta ccgctaggcg gccgtccacc gctggctcgta 300
atcgacgttg cgcattcttt gacgtaatac gctggcactc gatcatcgaa cccgagatgg 360
tcctccctgg acgcccctct aaaaaaaaaa aacaaaaggg ttggttg 407

<210> 39103
<211> 132
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-013-Q1-K1-G12
<400> 39103

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gcacgcttcc ttgcgccttc gatcgcgac gctctggccg ccgattctat tgctagaact 120
gagaaggggg tt 132

<210> 39104
<211> 404
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-013-Q1-K1-G2
<400> 39104

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ctgtggatgt gcgggtcgtg ctgtgtctac gagttagttg ctttttcagc gtttgtttac 120
ttgatagttg taggtcctca gtccccgctt tagatggtag gttgttattt gttaggttgt 180
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gagagttcac tcgttaattg gcctagaaat ctttgacttg tatgggttaa gggttgacctg 360
tgtcttcgta attccttcgt gtgcataata gtcagtgaca aatc 404

<210> 39105
<211> 363
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-013-Q1-K1-G3

<400> 39105

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ccaaaaaaaa aaaaaaaaaa aaaaaaggaa aagaaaaaac aaaaatcccc cccccccccc 120
caaaaacaca acaccaccac aaaaaaaaaa aggggtggtt ctcccaaagg atttaagtca 180
atgcatgtgg gtccgtaatg caaaattcac ctaacggggt tattaaaact aaacctatgg 240
gttgctgccc aaaaatgcga gaatgggaaa aatttcggtg catttaaata aaactgttcc 300
gaaaaaaact tttccccctt taatcgggtca aaaattaaaa aggtttgaat taactgttcc 360
ctt 363

<210> 39106

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G4

<400> 39106

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aattttctagt ggatcctagc gtcgaagacg ccagcagtag tctaggcttc cgttataata 180
tccgccccaa gttccgccgt gagtacggcc gcgctccgcc ggaagacgaa cacgccgaag 240
tcgcaacact ccgcgggtaa gacgacccgg tggccgagga aaccggaact gtctccatag 300
aagcgatgat gactgcctcg ccggtggccg atgaaaggct aggctcgtac gaagacctcg 360
acgatgacca tactgacgac ttaacctccc tctcggaact cgacctaatc gacga 415

<210> 39107

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-013-Q1-K1-G5

<400> 39107

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 gtagtgtagc tagtaagtca cgacggtaaa taacgtgggt aacaatccat tcgattgaag 180
 cgtaagggta ctcaactacg taagcagcaa tacgatcctc gataattagc tctactaagt 240
 tctttaacta gccggcgctc taagcctcta cgacggcggc aacgcttaaa gataagactt 300
 ggaatgactc attttcgaaa gcggtataaa cattagttac gactaaagct aatagagcct 360
 cataggcgtc gnaggtctat aagccttgtc cagatgcaac agtggatacg ggcgggcaat 420
 cctcgtaagt agcgtacccg acgtcgtaaa agatacaacg 460

<210> 39108

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G6

<400> 39108

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 cttcgtaagg tcccaccagc gtaaatagtt ggtaataata gtagtttcac ctctccgta 180
 cgttatccca tttaaatcgg ggacagtcct cggtctctacg gctgcgctag aggaaaatag 240
 aactagtagg gcccggtacg cggtcgcaga ctctagatcg tagaccactc gcaatgacga 300
 cgccgccgaa ggaggtcgcc caatagcgta agtaagacaa tccacatcca cgttccagga 360
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<210> 39109

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G7

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 ccccgactat tactgctatt tcggaagctt cgtctcggtat gaggcggaaa aatagtattg 120
 gccttatggg ggtacaccag tcacccaatt gacccccaca ggcgcccgcg acggctagcg 180

aaggaggcct gcacctcccg cctgaacacc cctgtgcgca cgtagccgca acgcttgtac 240
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 ggaacggaga cggaacgacg acccttggtg taccctttac gtcgtgaacg gcggcagact 360
 cggcacacct cgccgcgaca tcgcgatcga tccacggcgc gcccgccca cggagctatc 420
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<210> 39110

<211> 423

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-013-Q1-K1-G8

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 acacccttcg cctatcagca gccctccgac cacctctcca acggtccgtt ctacaatcng 360
 acagaatccg aacatcgtca aggttcctcc cggacgccta gcatcaagga atcacaacct 420
 cag 423

<210> 39111

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-G9

<400> 39111

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 ggacggagtt ccggagtttg aagaaaaaga cgttcggtga cgcgttgag ggagttgcgt 180
 cgacttggga atatatagt atgattaatt cgcctagtcg ttctcggcct aatgaggcga 240

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tctctgagtc tcttacgcct tttaatcgtg agcataatct gtcgcctgct tcgtataggt 360
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<210> 39112

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H1

<400> 39112

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cccgaggccg cccgggacaa ggactccgtc gaagacctct ttccgttccg gcatccgttt 180
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gctctcaacc cttcgagaaa ggctcgtagaa gggctggcag aggggtggaaa gaaggagact 360
cctatgttaa cgcacccctc ctccgcctgg aagttctcct cggaacgagt ctccggact 419

<210> 39113

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-H10

<400> 39113

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cccttttttc gtcctctacg gacggccgtc gtccgcgcac gttgagaaca aacgcgga 418

<210> 39114
 <211> 178
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-013-Q1-K1-H12

 <400> 39114

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 tccctactga aacgtacagt acaagtcacg cgatcagaaa aaaatggaaa tactccac 178

<210> 39115
 <211> 442
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-013-Q1-K1-H2

 <400> 39115

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 aattcgatgg ggatgtcgga gcctctggtt gggcctcatt agtgtacggg gtggtggcct 360
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<210> 39116
 <211> 371
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-013-Q1-K1-H3

 <400> 39116

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 aaaagaaaaa aaaaaaaaaa aacaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaaat 180
 gacgaaatgg acccaattca atccaagaag cataatgaca atacaaatta cttaaggggtg 240
 ttcacatacc caccaaaggg agtgggaaga catcgtgaag actcccaacg aatacaccga 300
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<210> 39117
 <211> 451
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-013-Q1-K1-G1
 <400> 39117

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 cagacaaaag gtcgatgtgg gtctcgtttg ttgacttgac gacctacgac aatccgattg 180
 actgtatggg tcttgcgttg gtgatgtact acctaaaccc tcgtttcact aatccctgac 240
 ggcaggacag gggttcatta cggcggcgat gggcgatgga gaaccagggc ctgaccttgg 300
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<210> 39118
 <211> 260
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-013-Q1-K1-E5
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<210> 39119

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E6

<400> 39119

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caaactgctg tcttacctcg gaagtgtggg gagtacgttc ccgtattcag acggttacgc 360
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<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E7

<400> 39120

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gtcttcttct tcttttagttg tagtcggctg tgggtgggtggg ggcttcggta gtggtgtcgt 180
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gtcgtagtgg agcgtgtctg tetaatagtt gtgtgctgct ggtgggtggg taggtaggta 360
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 <213> Zea mays

 <223> unsure at all n locations
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<400> 39121

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 agcctccggc cggtcacggg tccgagtctc tctgttcggc cttctctact accccttatt 240
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 <223> Clone ID: LIB3069-013-Q1-K1-E9

<400> 39122

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 tgggtcgatg gcggcccgag ttacgattcg tgggtcgttt atgcccgta tagttcatgg 180
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 tgataagggtg ctggtttcgt ctgcggatcc tcttg 275

<210> 39123
 <211> 426
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F1

<400> 39123

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gtaggttcag tataagtagc gatactagtg atgagagcct acgtagcagt acgagtagta 180
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gtagtgcgca ctctctggaa tcgagcggga ttgtgagtca ccctgtgacg aaggctacgg 360
ataaggtact atccgtaggt tggaaaaagt cgtcctgggt ctaaataagag aaggagaccc 420
cgtaac 426

<210> 39124

<211> 244

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F11

<400> 39124

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gatcattaat tcgcctagtc gttctcggcc taatgagggg aattctccta ttttatgtga 180
ttagactagt ccacgtcatg cgggtgtgtag gtctagtgat gtctcagagt caccgacgcc 240
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<210> 39125

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F12

<400> 39125

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gtaagtctgt agctaattcg accttgtctt tctgttcgta tcctcccacg gctgggtcccg 180
 tgttatctat tctgtgcggt ctgtagtagc attgctgttc tatcgctttc gagtcaattt 240
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 ctatagtact cgttacgcct tgcggaaaga cgagtattaa ggaggcggat gagtaaacga 360
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 cgctaagagg tcgggtcaca cgattaagtc gaggaaacgt ataaacgagc atgagttccc 180
 gttacggtct ccgagataac aaatacgctt ccgctcgacg tagatcgctt tacgatatgg 240
 agcacgccag atgggtgagag ctacgtcgtc gtttcaatct acctctgtag cgaaacgccg 300
 gagatagtca gagatctcct ccaagttagt acctaaagaga aggattcgag ccacgagtaa 360
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 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-013-Q1-K1-F3
 <400> 39127

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 ttatactgtt attgctctgt attgctgtgg ttatttacct ctctctgctt actgtactgt 180
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ccacgggagc gagaggacga ggactaatcg gcgtagtact aggtgtaata cggtatcaag 360
gaggacgcgc cctagcgtaa ggggcgctcg gagtagta 398

<210> 39128
<211> 347
<212> DNA
<213> Zea mays
<223> unsure at all n locations
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atacgagtct cgtcagatgt cattcttcga gaggtcacgt tcctactgga gagggtagct 180
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agggccccca gcgctctagt acgggtatact ccctgaagtc cgtcacc 347

<210> 39129
<211> 289
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-013-Q1-K1-F5
<400> 39129

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ccttaagtcc cactatccta cgaacctaat ccaccacca cttccctcga gaatttccca 180
cccaaccggt cgtttccccg cccacattg ctcccctcgc aaataacctt cccggccatt 240
tactcccccc ctcccgtagt atacatctc ccatttactc ggtccccca 289

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<211> 333
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<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F6

<400> 39130

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ttacgtatac gcctctcgtc ttttataatt cttcggaag tcccgttctt actggaaaag 180

gtaccttcgg cgttatcggc gtaattcccg tcgtcaaaca ttgctacgaa gcgtctaagg 240

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acggttagcc tcccgagcgc tcgaatacgg tat 333

<210> 39131

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F7

<400> 39131

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aaagagagga ctaactaact aacctgcttc aaacccaatt tcttcaaaaa ttatccacac 180

catcatcccc acccacacaa acttgctttt actttaatta cttgttagtt tatttgtttt 240

gttcgacttg ctttagtgac cgtcacgagc ccaggcgacc ccattataga ctccttctcc 300

cccccgagca cgcaaacaaa gcccgaggct taggtctgct acgcaaacct gggagtgagc 360

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gtaataag 428

<210> 39132

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<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-F8

<400> 39132

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 caccttcaaa aaaaaaaaaa aaaggggtgtg tgtctcagag gacttaagtc catgcatgtg 180
 cgtacgtgat gctacagtct cctcacagcg ctattcaaac ctaacctatc ggttgctgcc 240
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 tttttccctg ttagtcggtg caacagtga gaggtttgta ttgactgttt cttttaatag 360
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<223> Clone ID: LIB3069-013-Q1-K1-F9

<400> 39133

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 <212> DNA
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<223> Clone ID: LIB3069-013-Q1-K1-E4

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 actgagtctt tagggcaagt tagatcataa gcctcttaaa caacgtaggc accgacgtat 420
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 <213> Zea mays
 <223> Clone ID: LIB3069-013-Q1-K1-C9
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 caagattgaa gaaacgaaaa acggcgcttg agccagtctc cgcatctcgc ccgcagtcgc 240
 atttaaccgg ttactcgtcg tgcctcgctg accacactca gagagtcggc aattacgctt 300
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 <212> DNA
 <213> Zea mays
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 cttgggaggg gtgtaccac cagacaaaag gtcgatgtgg gtctcgtttg ttgacttgac 180
 gacctacgac aatccgatgg actgtatggt tcctgcgttg gtgatgtact acctaaacct 240
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 ga 302

<210> 39137
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 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-013-Q1-K1-D10

 <400> 39137

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 cgatcaacga agttgatgaa aagtccccga cccaactaac ataccacac atctaaccta 180
 aggatacctc aggaactcat cggatcatac cac 213

<210> 39138
 <211> 337
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-013-Q1-K1-D12

 <400> 39138

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 cgtaatacgt ggattagtct gagacattag cgtaggccac gccgtccggg gatattttat 240
 ctccgccgga ttgcgaagcc gattcgagac ccttaccat ctcttccaa cctcgctagc 300
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<210> 39139
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 <212> DNA
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 <223> Clone ID: LIB3069-013-Q1-K1-D2

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gaccaagaga agacggcagc tccaccggcg ctccgagcat cgactagctc tcgatagata 180
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 ctatacgga cgtcttacac gaacggctgg ataagatcga cctagaacgg gagcccaaga 300
 gggacttgct aagcgaaatc ccctacggcg ccgttcatga tcccggcact aagtacaaca 360
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<210> 39140
 <211> 388
 <212> DNA
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<223> Clone ID: LIB3069-013-Q1-K1-D3

<400> 39140

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<400> 39141

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cgccctacgg accttttttc cgctggagaa gaactcctac cccaactatc gactccatta 360
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<210> 39142

<211> 327

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D5

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taccgaggaa taatgcatgt ctatgcgtcc ggggcgtcgg gaccggccgc agtccttgta 240
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<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D6

<400> 39143

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gcactaggga ccccatactt gccgaaggcg ccctccgaag gggattgcac atgtcactca 180
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<223> Clone ID: LIB3069-013-Q1-K1-D7

<400> 39144

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 <212> DNA
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<223> Clone ID: LIB3069-013-Q1-K1-D8

<400> 39145

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gactacggag cgtcgagtcg cgtgacgcgt cgcactgaaa ccagctgac tacgcgcctc   360
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<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-D9

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atatttccga cgaaagtgag gtctacgcta attatagacg gcgtcgtcgt atagataaaa 240

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<211> 376

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E1

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acctagggaa ccggcgtagg acccgcccta aggaatccgg acagtgcacac ctccgacgaa 300

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<210> 39148

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E10

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agggtaaggg tcatagatac ttaggcgcgt cgcgtcctcc cgcgcgtcgg cgccttacc 120
 cttccaatcc ctaccgggta ctaccgcgtt agccccacgt cccaaaacgc caactgatcg 180
 cccggcggtta gtcgcccggc gtaatacgtg gtttattctg agacattagc gtatgccacg 240
 ccgtccgggg atatcttata tccgccggat tcgcaagacg attcgagacc cttaccatc 300
 acttcccagc ctogctagcg attaccgtcc actcagtccc tagatcgaca tcacgtatta 360
 ttatataatc aacctcgcat tcgccgcggg ccccggttaat aactcgc 407

<210> 39149

<211> 304

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E11

<400> 39149

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 caaaggactt aaatccatcc atgtccgtcc gtcattgtac aatccccctca caaggctatt 180
 aaaaccaaac caatcgtttg cttacaaata atactccgat cggaaaaatt tcgaatccat 240
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<210> 39150

<211> 189

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-E2

<400> 39150

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 cgtagtaat tttcatgcat tacatcgctt gggctgatta tacattactc cggttcggat 120
 attcgggtcg ttctgtcttg tccatgtgtc tgtggatgtg ttgagctgtt gggtgaatta 180
 gctggttgc 189

<210> 39151

<211> 296
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-013-Q1-K1-E3

 <400> 39151

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 tgccgctaag aggtcgggtc tcacgataaa gtcgcggaaa cctataaacg agcaggagtt 180
 cccgttacgg tctcctagat aacaaataag cgtccgctcg acgtaactcg cgttacggta 240
 tggtagacgt cagacgggtga gagctgcgtc gtcgattcaa cctacctcgg taacga 296

<210> 39152
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-013-Q1-K1-C8

 <400> 39152

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 ggacattatt ggcgagcata agcacaccaa caacgaacga cagcacgcat attcagggat 180
 gacatcagta acggtcacag acgagggtaa atcaaaaaga gcgtagggct aatatacaag 240
 aactcagac tcattctccat ccgtctgact acgtcagcat cccgggcggg cacattgcgc 300
 tccaaacgta 310

<210> 39153
 <211> 168
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-013-Q1-K1-B12

 <400> 39153

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 gatacacgtt attattactc aacggaaagc gtagtagatc catcagaccc attgaaacta 120

cacaagtaat tcgtaggact cataactcgaa cggagtcgta tgtccatc

168

<210> 39154

<211> 407

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-013-Q1-K1-B3

<400> 39154

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gggggtgta gtgctctgtt ctgttgctag tagtagtagt agtcgtattc ttaccttatg 120

gtccttgctg cgtgtcctgc tcgtatttat aaaggatggt gtgatggtag ggggaggaga 180

cgaagtcgaa gtagtcggag ggttctccgg gcggttcgat ttagcctctt gattttaagg 240

catcgtcgat cgtgttattg nntattgttt tattctccgg gcggttcctt cctccttcc 300

ctctgcattt cgtctgacct tgttctgttt aattttgata aaagggaagg ggaaaagtgg 360

aagagcactc gatccccgtt attaacggtg cccccccca taatgag 407

<210> 39155

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B4

<400> 39155

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ccttcttaga aacgtcctag aagccgatac actcggtcac tagatattac ttctagacca 120

agtgcgccga tattgcctga gtacatattc cgggggcgtc ccatcccgcc gaggccgata 180

ccgagtcctt agaggatccg ttatccaagg aggtatatgt taccggagaa ctctcttaaa 240

ctaagaccga ggagtcattc gaagccgagt gaggacctgc ctattcagac cctgaacgcg 300

attacaagtt ggagtaccta acct 324

<210> 39156

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B5

<400> 39156

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cctgttcagc gcccgggacg gtttaacggc ctaaacttgg tctagcggtc ggtcattaaa 180
acgggaataa aggatagtca ttttgactaa ccgcgacgcc gcgcgcccgc gggcacgcct 240
ctctcggagc ccgagtcgcg gccacccac tgcgccggcc gactgcgccc gaaacgtcca 300
acctaggatc gcgatactct gagccgcccc aaaaaaaaaa aaaaagggtg gttgtctcag 360
aggacttaag tccatgcatg tgcgtacgtg atgctacagt ctcttcacag cgctattcaa 420
acctaaccta tcggttgctg ccccataatg ctgcgatcgg ga 462

<210> 39157

<211> 461

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-013-Q1-K1-B6

<400> 39157

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tttctttcat tctgttgctg ttgctggact cgttacgggg gtgcataagc atgctctgga 120
gccacggaga aggaagtaac ttgatgcgac gtggcctgcc taatgtgcgt gtcgccggga 180
gcataggtag tagttgggta ctgcttggtc tataaggttt atttgttttg ataaggtttg 240
ttgttctggt cctaagggta agtaggggca cgccgcccac tgtgcttgcg cgaggtgcgg 300
cggtaggaag aggttcgcgt tgaagggcac cgctcacggt aagtttaagt attagggcac 360
tatttagtct aagccttaga ggaataagag actcgccgtc gaggaatggg tcggatgaaa 420
gtccggcgga tctagggcct ctaatcntca tcgggcgaac g 461

<210> 39158

<211> 290

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B7

<400> 39158

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gcacttaata ccgatctaag ttcacgatac atcacaatac taacacaact ctagccaggc 180
gcatcgatc tagtgtatca ccgtaatttc gagaacgtca aaatcttatg ataggttaat 240
acatactgta cgtaagataa ataccggcac tcagacgata ctacaaccgc 290

<210> 39159

<211> 445

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B8

<400> 39159

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acgatacctg ctaaacttta agacatgaaa ccctgggtgga tggacgagtt cgagaagtaa 120
gacgccgatt ttacgggctt ccccggcgga acaacgacag agcgtggaat taactaattc 180
accgagaaag cgtccgtagt cgaagacgta gagcgccgca cccgttcact ggtccacgac 240
gatagcgtag agccgtgtga atcttttcgc gggattacc cttatcgat tcgcactgac 300
aagcggtcct atactaacgt aatacgtttt tcgcgtaagc ataatacctg gaaaagtagt 360
agcagtagcg gaagcgaaga agcacgaacg tagctcgctc gataacgtaa actcggccta 420
atcctcgctt ttgcgtcaac gcaat 445

<210> 39160

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B9

<400> 39160

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acgcgggtcca cctcaatcag agagacaaa ggtgggtgtct cagaggactt aagtccagca 120

tgtgcgtacg tgatgtacat cacctcacag cgcattcaaa ccgacctacg gttgctgccc 180
 ataatgctcg atcgggaaaa ttctgtgcca tttaatccaa ctgttccgta gtatactttt 240
 tccctgttat cggtgcaaca gtgaataggt ttgtattgac tgtttccggt aatagccgtc 300
 tagttcgaac ggtgaacggg atgtgtttcg cagtggagta ccaagtgtgg tcggcgccggc 360
 ggccatgtgt agtgcgattg ccatatccgt t 391

<210> 39161

<211> 429

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-013-Q1-K1-C1

<400> 39161

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 agaacgggca cagataaacac ggacgcggaa gtttctaaga agacgaataa aaataagaag 120
 tcagcgaaga agtcggtaaa gaagcattac gtcccttccg tactcgaggt cactaccaag 180
 taaaccttct gctoctccgg ctccggctcc aataaggtag gaaaaccttt cattccggcg 240
 atatattagg aactttccga gcttaaggcc aatgagataa aggtcatagc caagccttag 300
 tcgaagaagg cgtcccgtac gggcgccgtc gccggtaatc gtggtacgga cgagaagtag 360
 actccttaga acgcgtaaac gagcgctaata ccntctgcgc tgtctccgaa aaagaaacgg 420
 tagaacgcg 429

<210> 39162

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-C11

<400> 39162

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 tcgtgttaag agccttaagc cgtggtcgga gatcgtcggg cgaagaagg aggcgtacct 120
 atcggcgaaa ccagcgtcga aacgtctgct aattccgggt cctttcgggc tacctccgga 180
 tatctcgaaa ggagagtctc gtcgggagaa ctaaacgagc ccgccggaga taaggccgtc 240

cccgtctcgc tctagggatc aaaggctacc gtacgcgccg gcgagatttc cgaggagagg 300
gaggtcggcc taattacgga cgccgccgtc gtataaataa aagtaaccgt cgagaagact 360
aaggatcgga gtaatgccgc ctccgttcac gaattagctc gggtcaccgg aatcggtaaa 420
gctg 424

<210> 39163
<211> 357
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-013-Q1-K1-C12
<400> 39163

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cttagtccgt ctctgccgcc gtcaggaagt ctaaagagtc taaggggatc aggtccgca 120
cagcgccctt cgactaatc gaaaaatgca gggtagtaga gccgcctaag atagtcacag 180
atatgaccga gggcgcaatt actagtcttt cggacgaccc atttatcgat ttcgctaata 240
gtcctcctaa actaacaaga aatatttcgg acctcgatcc tctagacgat aacgaaggca 300
gacggaaact cgacgaatta ttactgccac acactcctac taatagtagt atgtgcg 357

<210> 39164
<211> 420
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-013-Q1-K1-C2
<400> 39164

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tatgtttacg gtgtttggtg ttggtgtgta gcttagtggt catactcatg agtctcctaa 120
tgaggattct tgggtgggtt ttgcgctgga ggtgaatcgg ggttcgcctc atgggaatgg 180
tattttggcg cattcttcgt atgcgcttgg cgtggatggg ccttcgggga atgatatgat 240
ggattggatt cctcgtgcgg ttgttgatga tgtggattag aagggtggcg aggtgggttac 300
ggatcgggtg cgtgggtttg ggtgtgttga tcgtatggtg acatagtttg ggtaggtgcg 360
tcattagttt gatgatgcgt gtagttatgt gctgcctgtg cctgatgttc atcattagct 420

<210> 39165
 <211> 258
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-013-Q1-K1-C3

 <400> 39165

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 aaaaacacat aagacataag gagaatgcct taacggggcgt gttccacag gccttacgcc 120
 cctgcatttc cgtcacgtca tgacacaatc tcgtcccagg gctcttcaaa cgtaaaaatt 180
 cggttgcagc ctaatactgc tgcgatcggg aaaacttcgg ccccgttaaa ccagctgct 240
 ccgtagaata ctttatcc 258

<210> 39166
 <211> 436
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-013-Q1-K1-C4

 <400> 39166

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 ttctgtgtcc ggggtgtccg ataatagtcc tccagctggt ggtgttggga cataggcggc 120
 taagaatcct tggtatggtc cgtatgggaa ggggtgtgctg gcgaagactc tgggaggttg 180
 cgggtggtagc gggagtgtcc acctgatgtt gaagaaggta tcgtcgacgt gtggtgagat 240
 caatacgtca tcgacgagtt taggagaggt ctcgtacctt aacggcgcct attacgccga 300
 tgccgagatc gggaaggccg ctgtagaacg gtggcccgag aaggacggag tcgacactat 360
 aacgtgagat accgttaacg atagtaaggg agtgtagccg gaatttcntg ggctgatacc 420
 tccgggttcg gacgat 436

<210> 39167
 <211> 474
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-013-Q1-K1-C6

<400> 39167

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aaagcacgag aggggggagag atatagaggt tctatcgat atacgctcc gctctctagc 120
tttagagtcc ctccggactg tgaggaactt atcggaacc ccgtaaccgc agcagagaat 180
cgcaactgctt gatgaaggcg tacggcgccg gttacgggct atggtaggga atagagatga 240
gtaggctggt gtctcttttt tagtctaccg acttcgcttc tgtcacaagg cagcttcgtg 300
gcggttcttg aacctatct gactgaatat gatacgaagt ggttatgtgg tgttagcttt 360
ttctcggtcg tgacgattaa cttgaatgac gacggccatg gtgcggctgg gacggaggtg 420
gatgtagatg tggatgtgga tgangagacg acggtgcgtg gtggtggtng ggag 474

<210> 39168
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-C7

<400> 39168

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taacacacaa tgaacggacg ggtacgcaca ctgctacgtg tacgctttat gatgagatgg 120
gagcacatta tggcgagca gcaccacacc aacaaccaac acagcacgct tattccccgc 180
cgacatcatc aagggtcacg caccgaggta aaaaaaaaaa aaaaaaaaaa aaaggggtgg 240
tgtctcagag gacttaagtc catgcatgtg cgtacgtgat gctacagtct cctcacagcg 300
ctattcaaac ctaacctatc gtttgctgcc ccataatgct gcgatcggga aaatttcggt 360
gccatttaat ccaactgttc cgtagtatac tttttccct 399

<210> 39169
<211> 423
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-013-Q1-K1-B11

<400> 39169

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catggggaga gtatccctag cggtcgcggg gacttaagaa ggtccctgca gcgtaatacc 120

cgtaatcgta tcagctcccc tacgcgcggc cacgtacgac gtccccggag cctggccata 180

cgttggaaag taggtagagg cgtcgaacta aaccgctcac gagtcgtag aggaatattt 240

accactagag ataaagttat cgtgcgaaac ttccggatac atcgccttct aagctgcggt 300

tggacgtact tccggaactt ctacggtcgc tgccacgtcc ccgctctctg ggaggctcca 360

gctaagcgcc gcctatttca cactctgtcg gcgacgggtca taaagtacaa aaatacgact 420

cct 423

<210> 39170

<211> 183

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-012-Q1-K1-H4

<400> 39170

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tctgagtgtt gtataactta nnaatggann gcagtagtat tctatcagtg agttgggtacc 120

cctgggttac tgagtattta attttgtttt cataatctta tcctnntaca gacgattgca 180

ctt 183

<210> 39171

<211> 202

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-H6

<400> 39171

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ggaggggtttc ctcaaagaga acctgaaccc aaacccaagc agagaacact agcgttcctt 120

caccaaggcg ggcgtccatc ccagcagcca tggcgatggc gtacaagatg gtaaaacctt 180

ccccgcgctc cgcccatgcg cc 202

<210> 39172
 <211> 409
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-012-Q1-K1-H7

<400> 39172

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ggccaccaa gcccgcacct acacttcgac gccgccggtg tttnacaccc ccagcccgcc 180
gncaccatac tactagaaag cgatgcctac cataccacac tgctgtcagt ctctggagca 240
tttaggtggt ctggatcaat ggaagggttg tgtcctagcc agccggcaaa gatgagctgc 300
tgatggtaat gatgatgata agaggccact gctaccctac tacgtaccct cctctttgtg 360
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<210> 39173
 <211> 384
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-012-Q1-K1-H8

<400> 39173

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ctcatccctg actgcttccc tgaggttcga tgggtgctctg aacgttgatg tgaacgagtt 180
ccagaccaac ctggtgccct accctaggat ccacttcatg ctttcgtcct acgtccagt 240
cattttctgct gagaaggcct accacgagca gctgtccgtg gccgaaatca ccaacagcgc 300
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ctgectcatg tnaccgggtg atgt 384
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<210> 39174
 <211> 340

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-012-Q1-K1-H9

 <400> 39174

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 tcatttgatg gtgctaacga catggcagtt gaagcaacta ttgtctctgt tgatcaaaat 120
 ggcgaggact ctgtagttcc tgctgaagca ggtgtagagc ctgaaacatc agagcaaggt 180
 cggcgccagc aaaaccagag aggcagaaga aaagggtggtg tgaaaagaac acggtctgtt 240
 agtgctgtag ttgaagatgc taagatgata cttggcgagg tttttgagga gaagactgat 300
 gatcagggag atacagtcaa ggtgggcgct acacgaaagc 340

<210> 39175
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-013-Q1-K1-A1

 <400> 39175

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 cacttattat acgactcact tcacaatggc ggtagcctca tactaagcac ctatagtcca 120
 cggacccgcg gagaagaccg ctatacccta aaagctagtc ggcccctaag tctccaccta 180
 gccctatctg tgттаагааg tcgcggaagt acccggcctc ccgtacggaa cgaatacaca 240
 cgacggcctg cgttagtcag acacctaaca cctaaactct agcgaatcgt aagcttacca 300
 taataatgat tgactcagag accctataaa cttactacca ttcatagaat aatgtttcag 360
 ggttctctag taagtccact tcgacttagt caactctcac gtt 403

<210> 39176
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-013-Q1-K1-A11

 <400> 39176

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actccacagg gcgattcaaa ccgaacctat cggatgctgc cccataatgc tccgatcggg 120
 caaatttcgg tgccattgaa tccaactctt ccgtagcata ccttttcctt gatagacggt 180
 gcaactgtta ataggattgt attgactgtg tccgttaata gtcgtctagc tcgaactgtt 240
 aacgggattt ctatcgagc ggagtacca 269

<210> 39177
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A12

<400> 39177

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 agaagaagtt tgtggtgaac aagttggcgg aggaggagtt tgtggttgag aagatgattg 120
 ttgggaagaa gtttaagggtg gagaagtggg cttttgtcgg taagcttggt ggtaaggagg 180
 gtggtgaggg taagtgcggt aagaagaagg gtaagaagag tgcggagatg cataagactc 240
 atactcctaa ggcgtcgaag taggcgtatt tggatactgg tactcttctt aaggttacgc 300
 ttactacgaa tcttcctact aatgatactc ctgag 335

<210> 39178
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A2

<400> 39178

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 tacctagacg cagcggcgga taccgcacgt cattggtgac ccggttacia cgaaaccgac 180
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 gagaccact aaaggaagcc gccagagctc gggaagactc taaaggaaga caccgacagg 300
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<210> 39179
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A3

<400> 39179

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gttatcgtga tgcactgtgg tgctgcctga ggagtctgtt gttgctgtta agtagtactt 180
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cccggcggag gtgcttaagc taaccctaata accgttcctc acggccgagt gagataccta 360
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<210> 39180
 <211> 193
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A4

<400> 39180

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tccgttggtt ttaattaagg aaaaggggga aggttttgaa ggaaatccta aggttgcttg 180
gttgcttttg gaa 193
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 <211> 369
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A5

<400> 39181

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agttgtcctg ctgataagca tgatgctatg tctgatgctc gttctctgct ggcgtctctc 360
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<210> 39182

<211> 476

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A6

<400> 39182

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acatttcact tccgatcagt cttgactcgg catgagacgg ttgtaagac gaaggagcca 120
gatggtgtta gtttcgtaa gactcctacc ggtgggtctc ttaaggacat aagtacgagc 180
atacctaaag aataccccgg gaagcacggg gacacaaccg acgtcgctac aacgaaggat 240
tgtcatatat aaaagtttag aggtcccggt cccaccatcc ccgtcgactt tatcgccgcc 300
gatagagcga ccgatgacga atacgccact aacggaaaat tggccgaaac caagagaatg 360
actttcaagg gagtcgtctt cccgaaagac cctaagatga agaagacccc cgccggcgga 420
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<210> 39183

<211> 471

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-A7

<400> 39183

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cgtgcggggc gtccgcgac cgtcgcgagc ctaagcaccc gcctgaggag aagacgagag 120
aatgtcatag taacgtctta aatggactcg tctaatacgt tcggctgatt gtttcagccc 180

gcgcgggtca tttcagatag aaccactcgt cgcgccggtc cgcgcatccc gaccgcattt 240
taagcacccc gaagcctcga atccaccctc gtcaaccggc gctcgaagcg gacaaaaaaaa 300
aaaaaaaaaga agaaaaaaaaa aaaaaaaaaa aggggtgggtg tctcagagga ctttaagtcca 360
tgcatgtgcg tacgtgatgc tacagtctcc tcacagcgct attcaaacct aacctatcgg 420
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<210> 39184
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-013-Q1-K1-A8

<400> 39184

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ccttatacgg cgtcaggaca cacaataaat cgacggatcc tacgtgataa tagcatagag 180
acagaggaca ttaagaggcg ccgagtttaa acaccataa cacgtaatca cgggaaatcc 240
tcggatatgt tgtanatcac aaggagaata cgcccgcccc cgagactgag aaataggaac 300
ccggatccaa gttaacgaac cgcttaggat atcgctcaac gcccgtaac agggcctggc 360
tgcatagaga gccgttctcc tgtacggtcg accccggagc gtcctacaga aacgagtcca 420
gcggcgtctc ca 432

<210> 39185
<211> 369
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-013-Q1-K1-A9

<400> 39185

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gttggtggcg cgtcgtcggg agtggtgggt atgattctgg aggttggttac tattcgtggg 180

taggcgagtc ttgttactgt gtttcgttct cttcatgttt gtggtatggg gcttggtttt 240
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 aggtgtgttg atcgtaatcg ttctaagaat gttgntaggg gtgctagtgg ttctaattgtt 360
 ggtaattgtt 369

<210> 39186
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B1

<400> 39186

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 aaatcgtcag tcgccgtacc atcggtcata tcaagcgaca aacaaaaact actcacggaa 120
 ccacaatata aaaaaaacga tcgttggcgc atgtctcata ggaccaaagt ccatcgtacg 180
 tagtacgtca tgctacaggc tacgcaatac gatcgtaaca cataggttgt cggtcgataa 240
 tccatcaatc ggcaatcaga cacaagtcac tagtatgtct tccac 285

<210> 39187
 <211> 191
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-013-Q1-K1-B10

<400> 39187

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 aagaagttaa tggtggagaa gtgggctttt gtcggtaagc ttgttggta gcacggtcgt 120
 gagggtaact gcggtaagaa gaacggtgag aagagtgcgc agatgcataa gactcact 180
 cctaaggcgt c 191

<210> 39188
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-H3

<400> 39188

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cgcggtggtt ggtcaaagtt ctctgggtta cctctttgga agcggtgagc cccccaacc 180

agcagtggca ccagctgtaa gtgctccacc tgctgctgca ggtgctccac ctgctgagaa 240

accacctgct gcaaagcctg atggcaccag tcagattgct gctgggggta ccagccaaac 300

caataactac cacagggcgc acggtcagaa caccg 335

<210> 39189

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F8

<400> 39189

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gttgctcttc ggaccacctc caaggctctt ggtgtagctt gccactctca ccaatcaagt 120

tttcatgtct gatctcgaca ttcagatccc aactgccttc gatcccttcg ctgaggccaa 180

tgctggggac tctggtgctg cagcagggtc aaaggactac gtacacgtgc gcatccagca 240

gcgtaatggt cgcaagagcc tgaccaccgt ccagggattg aagaaggagt tcagctacag 300

caagatcctc aaagatctca agaaagagtt ctgctgcaat ggtacagtgg tccaggaccc 360

agaacttggg caggtcattc agctccaagg tgatcag 397

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<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F9

<400> 39190

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accgacatat tcagctaaaa atattgctga taatggcaaa gtaacatccg ggactggtga 120

aaacaagggt gaattcactt cacagactga aaataatggt gccgggaatc taaagtccac 180

cttgcaaacg attgtacatg gaggtgttgg ctatcatatg gtaaactgtg gtttgatact 240
 gttgaagatg ttatccgaat acgttgacat cagtaaagt ttaccatcac tatctttgga 300
 ggtggtccaa cgtgttgtgg aaatattaaa gcttttcaac actaggac 348

<210> 39191
 <211> 350
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-012-Q1-K1-G1

<400> 39191

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 tcgctcgctcg ccggcggcgt agcaggcggg gtgtctcgta ctgctgttgc tccacttgaa 180
 cgattgaaaa tattgcttca ggttcaaaat ccgcacagca tcaagtacaa tgggtactgtt 240
 caggggtctca agtatatctg gagaacagag ggccctccgtg gacttttcaa gggcaatggg 300
 accaattgtg caaggattgt tccaaattct gccgtgaaag tntttagcta 350

<210> 39192
 <211> 269
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G10

<400> 39192

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 cttagagcta tatccactct tacgactact acttacgggtg ctaccatcga gactattcat 180
 ataaggggat aggcgtccga cgtctagctt gttctaagtt tctcaactgc aaggggtgcta 240
 ctgcttacgc gcttggaatg ctatcgttc 269

<210> 39193
 <211> 407
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G11

<400> 39193

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gtgagagatg ccagaaatgg agaaaacaat ggcactgaag atggtgggaa tgaaggaatg 120
aggagtggga atgttggttag caatgcagaa gctgaagagt ctacagggtca tggaaataat 180
gaacgcgcag aacataccga agatgacaag ggtcaggaat gtagccacaa tgagaacagt 240
gcaagtgtag gaatccttgg cgatggagac agtgaagcta gagaaggcga tataaatgcy 300
gaagcggaac aaagtcaagc agacgggtggc ggcaatagta aagcggaaga tgctgagcac 360
aatgaataca ccaaaactga cgccaattca agcaagaatg gtactac 407

<210> 39194

<211> 226

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G12

<400> 39194

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tggcagggcg ccggtgccgg ccaagaagaa gacggataaa gtgacgaacc ctctattcga 120
gaagaggccg aagcagttcg gcatcggcgg cgcgttgccg cccaagaaag acctgcaccg 180
gttcgtcaag tggcccaagg tcgtgcgtat ccagcggcag cgccgc 226

<210> 39195

<211> 215

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G2

<400> 39195

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gctcatgtta tacatgtggg cgtgaaagca cccgtccacg agatattcat gatctgcaaa 120
ttgctcatct ccggctatgt atccagcgta gtgtctatgg ctgctacagc tccacttgaa 180

ccatcgaaaa tattgctaga cgtttaaaat ccgca

215

<210> 39196

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G3

<400> 39196

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cgtcattgaa gtacaaggat gcagacttta tcattttcaa tacggggcat tgggtggacac 120

atgagaaaac tgctcttggg aaggactact atcaagaagg taaccatgtg tataatgagc 180

tgaatgtcat ggatgccttt cataaagctc ttctcacctg gtccaagtgg atcgatgcca 240

atgttaaccc cagaaaaact ctggtgttat tcagaggcta ctcagcatct catttcagtg 300

gcggacaatg gaattcaggc ggtggctgtg acaaggagaa gtaaccaata accaacgatc 360

agtacctttc 370

<210> 39197

<211> 292

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G4

<400> 39197

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tggatggaga gcagttggct agttgttagc ggtttcccta gtttctcttc ctcttggtgtt 120

ccccgtttca gtttgcttat agccccgaag actcttttct cccgtagtgt cggaatgcca 180

gggtctgtcc ctgtgggtgt gttgcgtaac tgggatccga gtataccctg ctgtgttcgt 240

cgttacattg aatggatctg aatgaaagtg ggtagattg gagcttttct tc 292

<210> 39198

<211> 383

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-012-Q1-K1-G5

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aatggccacc cttaccctgg gcaggattat caactttgac aagggtccagt ctgtgggttaa 120
gccactcaac agggaggtga agcgcangga gaagaggaag aaccgcgtca cgaacatggc 180
tgctgtgctc aagctcaacc cctacctcgg cactgcccgg aagatggcca cccttgctga 240
ggctgcccga gtcaaggccc ggaaggagaa gcttgattcc aagaggacca agcttacctc 300
ggagactgcc aaagtcaagg ctgccggcaa ggcgtggtac aagaccatgg tctcggacag 360
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<210> 39199

<211> 353

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-012-Q1-K1-G6

<400> 39199

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ctgctgctgg tctctcctgt ctcgtcctcg tcatcgctgt cggctgctgc cacgctcgcc 120
gtcagcgctc cgccccact gcctgttcct cctcctcgtc atgctcaaga cgccgaaggc 180
atgctcatca acggcaactt cgagacggcg ccgcggaagc tgaacaagac cctgatcgtg 240
gggcgccact cgctgccggg gtggacggtg canggccacg tggagtacgt ctcgggcggt 300
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<210> 39200

<211> 330

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G7

<400> 39200

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tatgatgcaa tacatagata cggtaacaaga ggttaactga tctgatcgga tcggacattt 120

atataccagc tggggcagca tgcaatgggc attcttcagt ttggtctgaa cggccggcag 180
 taatataatg gtgatcttgg agcctcatga caaacaagag gagacagcag gggaaagcta 240
 gatgcgtttt gagacaatgc atgatgcttc gtcacgtaca gtatttgtaa atgccaactg 300
 ctctgtgtcca tcaaattgat gaatgggcta 330

<210> 39201
 <211> 372
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G8

<400> 39201

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 aaaatggaat actggggaag tcaaccgtgc catgtcaggc tacgagattt tgctttcaac 120
 ctcaaaatgc tcatctgaca tcttgtgtat tttccattta gcgtctgttc attggtgcac 180
 cagaaatgca ttgggacgtg gtgtatcgtg tggcctgggc tctactaatg ttgacaatc 240
 ctgaagtgcc accagtgggtg aacctgggtat aagcaggcgc cattcatgtc agctaatacgt 300
 tgagaaaaca tatcagtga atcgtgcaac tgttagtgta atgaggcagt tcctgcttac 360
 atattattac tc 372

<210> 39202
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-G9

<400> 39202

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 cttctgaaat tccatccga cagggtatca aggaatgata tttatcaaca agtaaaagca 180
 gaggagacat ttaagttcat ttcgcggctg aaggagaagc tacctcggct atcctaatag 240
 ccatcccact cttttttcca catgccttgg cgcacccctc attcacctgt aggggtcaagg 300
 tacagaattc agaggatggt tattggcggt atttacaagt aactagggt ttagcttggt 360

aaatgtgttt ttgtgtgtgt gtgtgtgtgt tgggggttgg gttgggtagg cattcctgtc 420
aactatgaca tgggatggta acca 444

<210> 39203
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-H1

<400> 39203

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gagacatgct caccgctcac ggagagaagg tcattcttcg tgcccttgaa attgagaaat 180
cccggtgcc acactcaaag ggtatttgag tacctgtgga tcttctgtat ccataaagga 240
tcagatccca aaaccattg gtcaaaactac tgaatgcagt aaacagggca tatcttatat 300
ctgagattgt agatccaaga tgcagatcag cggtttgtc acccctattg gtcctttatc 360
tgaagaaaat cacacgatcg acaagaattt gttgccgtg gagtgtgaag ggacaatgga 420
atgccacaca cgagacaacg atg 443

<210> 39204
<211> 278
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-H10

<400> 39204

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cacaccagac gccgagatcc atgccagtgg ctgatcttc ctcaacgatg gctgcctatc 180
cgacctcgct gtggacctgc tgctcgccgt cgcgtgtgca ctttttactc cgagcagaag 240
cccagatct gcgcaagccc cgcgttatta tcgacctc 278

<210> 39205
<211> 319

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-012-Q1-K1-H11

 <400> 39205

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 gggcgttgcg tgaagcgcta gggagtcggg tgtgcgacgg gcggcgctcg ttcctcaggc 180
 atgtgcggac gacgctcaga cgcattggctg tgtcgaccac ttgcagacga cgccgacaca 240
 gatccaggtc caggctccagg ttaagtattg gtttttgggtg tgtggacgtg attcttctag 300
 tgagatatgt tctgaagcg 319

<210> 39206
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-012-Q1-K1-H2

 <400> 39206

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 gcatcttgac cacaggcaca tggggctggg cggcgacgac agctggctgc cgtgcgtgca 120
 cgagcagtac ctgctgccgc cgacgcggta cgccttctcc ctgcggctct gccccctgct 180
 gccgtcgtcg tcgtgccatg acatctacag gtctcagctc cccagctgat ggtgccgtgt 240
 gccggagacc cgtcgacgtc gagccttggg aaacaacaat gaacgcaatg gcctggccag 300
 tgaatgaaag tatataatat tgtaataaag cagagacgta 340

<210> 39207
 <211> 411
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-012-Q1-K1-F7

 <400> 39207

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 gccgcccag acgagatggg catcaagggt ttgacgaaac tgctggcgga caatgcgccc 120

aaggcgatga aggagcagaa gttcgagagc tacttcggcc gcaaaatcgc cgtcgacgcc 180
 agcatgagca tataccagtt cctgattgta gttggaagga caggcatgga aactctcaca 240
 aatgaagctg gtgaagtcac tagtcatttg caaggaatgt tcaaccggac aataagatta 300
 ctggaagcgg gaatcaagcc agtttatgtt tttgatggca agcctcctga tatgaagaaa 360
 caagagcttg ctaaaagata ctcaaaaaga gatgatgcaa cccaagatct g 411

<210> 39208
 <211> 422
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D9

<400> 39208

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 ttattgatat tatatattct gtatatgttg cacggcagtt cttttttgcg gatagaagga 180
 atttgccatt ttcgacaggc acggcagagc taaaactaag gtacagactg tagattttggg 240
 tagattttatc cctcttaata aaacactgaa tagttccatc tcgaggccca ggctgcttca 300
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 <211> 177
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E1

<400> 39209

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 cccttgttag aaaaggacag cttctgtttc taaagctact aatgccgtca gaaagcc 177

<210> 39210
<211> 414
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E10

<400> 39210

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cggtatccag gtcggaaacg cgtgctggga gctgtactgc cttgagcatg gcattcaggc 180
tgacggtcag atgcccgggtg acaagaccat tggggggaggt gatgatgctt tcaacacctt 240
cttcagtgcg actggtgctg ggaagcacgt gcccgcgtgt gtttttgctg accttgaacc 300
cactgtcatc gatgaggtga gaactggcac ctaccgccag ctcttccacc ctgagcagct 360
catcagtggtg aaagaggatg caaccaacaa ctttgcccgt ggtcactaca ccat 414

<210> 39211
<211> 322
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E12

<400> 39211

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tctgagataa taactaacia agaaccagac ctacaacaga gcttacaaaa tagcggtgag 180
tgctgtgaac agtgctaaga acctgattat gatatgaagt atgacttcat gtaagactac 240
aacggacctg atgctggacg atatgcagct ggatgggctt gtggcgatcc tcatgaacat 300
cctgatgtac gcacagattg ag 322

<210> 39212
<211> 265
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E2

<400> 39212

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 gcgccaacgt ctcccactgc gctcagctcc tgcattattcc cccgggctcc aaagacgccg 180
 ccgtcttcag ccccgggggc gacaagggct ccaactgccg tacagccaag gacaactcga 240
 cggcgacgac cgacttcgc gcgt 265

<210> 39213
 <211> 284
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-012-Q1-K1-E3

<400> 39213
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 tactataata tgttgggtgg acttaatgat tgngaattgg atgtgttaca taattgttta 120
 aatggaggta ttggttgant gatgaggatt aattattgaa aaaaaaatt gggggcatgt 180
 ggtagataag taatgatgtt taaatagaga gaaatagatt atttatttaa attgttatga 240
 tatatatatt tatatttatg tatatatata tatatatata tata 284

<210> 39214
 <211> 405
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E4

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 ctgcggatgc gatgaacaag gccgggggtac agaaagctgt ttgcaggaac tgtaatggca 180
 gtggtgctgt gatatgcgac atgtgtggtg gcacagggaa atggaaggcc ctcaatcgga 240
 agagggcgaa agatgtttat gaattcaccg agtgcccgaa ttgtacggc cgcggaaagt 300
 tgggtgtgcc tgtctgtctc ggaactggcc tgccaaacaa caaggggctc ctgcgacgcc 360

cagaagccaa gcagctgctc gacaagatgt ataacggcaa agata

405

<210> 39215
<211> 413
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E5

<400> 39215

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cggatatccag gtcggaaacg cgtgctggga gctgtactgc cttgagcatg gcattcaggc 180
tgacggtcag atgcccgggtg acaagaccat tgggggaggt gatgatgctt tcaacacctt 240
cttcagttag actggtgctg ggaagcacgt gcccgtgct gtttttggtg acctgaacc 300
cactgtcatc gatgaggtga gaactggcac ctaccgccag ctcttcacc ctgagcagct 360
catcagtggg aaagaagatg cagccaacaa cttttgccgt ggtcactaca cca 413

<210> 39216
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-012-Q1-K1-E6

<400> 39216

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gatcagagag atggtatatc cttgcacttt gctacagtgc agctggcatg gatgacagtg 120
cgttaaacad cataaggaat ggtttttctg tactggagag aaagggaaag cctcatgttc 180
catctcttct tttaggagca aaactatggt gtaagaacct aaagcatgct tccgaaggga 240
taaagtttgc aaataaagcc atgaagtctt tcagaagtcg tgatctgcat ttcacagca 300
ctacaaaaca ctttcttggt gtttggtatg gaccttttc taggtcctcc acctcatact 360
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cgaagtata 429

<210> 39217
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-E7

<400> 39217

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tgcttctgtt ttgaaggcta ctagtgccgg gagaaagccc tctgctgcca attcgatcag 180
tagctctgtg ttaagtattg gatcaaggcc aaaggccttg agaagaagct gggaaggaaa 240
cacggatatt aaaggaaaag gcaattcaga atcaaagaca gccaaacctg acaagaagtc 300

<210> 39218
<211> 316
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-F1

<400> 39218

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gtgggtgagc ggatcgagat ggcggcgctn gatgttgagt accgctgctt cgtcggcggc 120
ctcgccctggg ccacggacga ccaactccctc cacaacgcct tcagcaccta cggcgaggtc 180
ctcgagtcca agatcatcct cgatcgggag acgcaaaggt cccgcggctt cggcttcgtc 240
accttcttca cggaggaggc gatgcggaac gccatcgagg gcatgaacgg caaggagctg 300
gacgggcgca acatca 316

<210> 39219
<211> 445
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F10

<400> 39219

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tggggccata aggctgcact ggaaggtgag gacaaggaga tctactcaga aaaaggtgtg 120
 ggcaaagtgc agtggaaacc tgccgagaac ggccgggcag ccacttggta taagagatac 180
 ttcgatgagc cagatggaga tgatcccggt gtacttgaca tgagctcaat ggacaaagga 240
 atgatttttg tgaatggtga aggcgtgggt agatactggg tctcataccg aactcttgct 300
 ggaactcctt ctcaagcact ataccatatt ccgcgtcctt tcttgaaatc caaggacaac 360
 cttttggttg tcttcgagga ggagatgggc aaagccgatg gcatacctgt gcagaccgtg 420
 acgagagacg acatatgtct gttca 445

<210> 39220
 <211> 372
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-012-Q1-K1-F11
 <400> 39220

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 tgctggcctc gccggcggcc acgcgcctgg cgtccgccgc ctgcgcgggc gagaagttcc 180
 cggcggggcg tgcgtacgcg tcgtgcgagg acctgccgaa gctgggcgcg tcgctgcaact 240
 ggacgtacga cgcgtccaag agctccctgt cgggtggcgtt cgtggcggcg cccgcggcgg 300
 cgggcgggatg ggtggcgtgg ggcctgaacc cgacgggcga gggcatggcc ggcgcgcang 360
 cgctggtggc gc 372

<210> 39221
 <211> 121
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-012-Q1-K1-F12
 <400> 39221

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 ggtttggtgt atcagctttt gttgccgggt aaaacgcctg tgagctgtga tgtgatgctt 120
 c 121

<210> 39222
<211> 360
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F3

<400> 39222

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cgggtccgaac tccgtctgct tcctctgagc gtccgggagg acaaaacacg cggcgaggac 120
caggatggcg attgtgcggg aggaggcagt ggacacgtcc atcagcccaa ggggtgagcg 180
gctgcggccg tccaaaacca tggccatcac cgatcaggcc atggcgctgc ggcaggcccg 240
cgtgccggtt atcgggtctag ccgcggggga gccagacttc gacacgctcg ccgcgatcgc 300
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<210> 39223
<211> 384
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-F4

<400> 39223

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atctaggatc gcctcggttc atcgggtgtc ctctgaccc gcagtggtcg atcgacacgg 120
agatgcacct caagagcgtt gttcatctgg acaggctctca ggaggtagtg aacattgttg 180
ggagcaacgg acagacctca cctagggaca aaagagggtg cagagaaaac agggatcatga 240
gctcggcctt cgtccccctg tttcacctca gcatagagct gccaaatgag gaggatgcag 300
aagggacggt gcaggtccta caggcactca tcgagaaggg caaggcacgg aggtgggaca 360
agaacatnct acaccggagc aaca 384

<210> 39224
<211> 305
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-F5

<400> 39224

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tgtttttggg cgggcgtctg ggaggtccaa actaccgac cctctcaaaa aacagcgtag 120
accatcttaa ggggaaactt aaattaaaac caagggtcag gcgcgttcga tcagagcaac 180
gagcaacaca cagacgtaac cgaacgacaa aagatgtaca tgcacgcaca cgtccataaa 240
ctgagtaatc gtaaaaacga cagcaccgat caaaaatctc acaaataccg aagtttcact 300
gggaa 305

<210> 39225
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-F6

<400> 39225

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gagcgggagc tggagctaga tcccggggag caggagcggc ggctgaccgt gatcgcgagc 120
aaccgcgtgc ggcgcgcgc cagctacgac ctccaggaca gcgtgcagca ttcggcagcg 180
tccaccgtgg aggtgcgcgc cacggccgcc gacagcatga gcccagggga cgcggagatc 240
agctcggcgg cggggccgaa gcaggtgcgg ttcttcacgc acagccacgt ggtgagcccc 300
gaggccgcgg agaacaagca ggtggcggat gagctggagg cgctggcggc ggccccggaa 360
gccggcactg cgttcacctt ggggcattcg cacgtgcagt gcaagccccg gtcgttggtg 420
c 421

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<211> 440
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 39226

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 ggggttgctc aaagaattct gagcgaactc actgcaagag aaatttcaaa agcttatgct 120
 caatgacatg aaagagctct caagaattca agctgaagtt ggtctacaga tgccactgat 180
 gtctccgctt gattctgatg aagaaaagta ttctgtggct tctgattctg tttcttcagc 240
 tgatcatgag aaggctcaac atggtggaaa ctcatctgac tcacagaata ttgattgtga 300
 tcataccact gaagattttg aatccagtga tactctctta acgaacagtt catncctgcc 360
 tccccagcct caaccacctg tgctcctca tatggactcc tgatatcgat ttatccgaac 420
 tggagagctt gttctccact 440

<210> 39227

<211> 349

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C12

<400> 39227

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 gcgatggatc ccacctactt ttcatgggct cacttccaat gcacacgccc aggacggatc 120
 gtcacccgtg caattgtcaa tacactagag ttctctcgta ttgccccagc aggcagcatg 180
 ggagcctaca acgtcctgat gagtgcctct gatggccttc taaaagggtg ccgggaaggt 240
 atcttcacag cgaccttctt cgtcctgggc cgcaagccta tcaaggaagc tgatatgggtg 300
 aacggggggcgc tcctttgagc tgcaacatta gtatgggggtt gtactcata 349

<210> 39228

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C2

<400> 39228

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 gggactgccc aaaccctact aggactagca gtagggaggc gaggggag atccggcgga 180

ggccgccccg atgggggact tcaacgtggc actggtgac gtggcggcgg tggtcagcgt 240
gctggtgctg ctgctcagcg tctaccttct cgtcaactac cagcaccgcc acgacgtcaa 300
ccaggcctac ttccccaagc tcgtcgtcgt gctc 334

<210> 39229
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C3

<400> 39229

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ttggttggtt ctttgtttgc catgcttggt acctacattt tgccttgccg ttgttttttg 180
gcgatcctca agacaaaagt ggggtggcat cagatagcag cttgctcgtt catcatagtt 240
gtcgggggtt gctgtgccta cgtgggaaca tactcgtccc tgtcgaagat aatccagaac 300
tacgcatagc acagctgttc ctgtgacct gtatatgcat ctgcccgaca aaatcatgtg 360
tgtgctatat 370

<210> 39230
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C4

<400> 39230

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actaatgaga acctcccgcc aaatgtcatc aagcaattgg ctaaagaact gaagaacctt 180
gatgagtcac ctccagaagg gattaatgtg attgtcaatg atgatgactt cactactatt 240
tttgctgaca ttgaaggccc tgctggaact ccatatgaga acggagtatt caggatgaag 300
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ttccatccta acatagctac taatggtgag ata 393

<210> 39231
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C5

<400> 39231

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ggtcttcgcg cgccaagcta cggtccttga agatctctca acagggacca agcagccaaa 180
aaggggtccc tggcccatcc ggaagcaata gctgagagga tgcattgcagt gccctcatc 240
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acatcagttt gacgaggaca ccattccacg cggagctgca gtcattccgt ggttagctgc 360
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atgcggggccc ct 432
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<210> 39232
 <211> 316
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C7

<400> 39232

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tgtggttagc aacttcattg ctgaggctgt gcgtggcgaa ccccttactg tccagaagcc 120
aggaacacag actaggagct tctgctatgt cgccgatatg gttgatggtc ttattaggct 180
gatgaacgga aacaacactg gaccgattaa cttgggggaa ccaggtgaat tcaccatgct 240
ggaacttgct tagaatgtga aagagttgat taaccagat ataacagtga cgatgaccga 300
gaacactcct gatgat 316
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<210> 39233
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C8

<400> 39233

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tgcttgacc tgtatgttca gccacaccag ccacagctcc tgctgttctc ctgcaagtga 180
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gttcatggca tgggtattacg tgctgtcccg gtgaggtctc accgggcatt gtgacaggcc 300
tcaacctgtc cgggcacggc ctgtcaggcg tgataccgcc ggcgatgagt ggctcatct 360
ccatcgagtc cattga 376

<210> 39234

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D1

<400> 39234

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aaccgacg ctgacagcca gtacttgcc gagcttctcg cggagcatca gaagctgggg 180
cccttcatgc aggtgctgcc gatatgcagc cggttgctca atcaaggtga gagatccttt 240
ttttccacc cctcgcttgc tctgtgtgct ttgctgattg gtgacaaatc ctgtgcgctc 300
gagcctccga ggggtgttct ctgcaatcgg gactggggaa tcgagaggct tcaatgatcg 360
gatggctgct gatctttttt ctgcggcttt tatgctggcg ggggatg 407

<210> 39235

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D10

<400> 39235

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cgtgcctcgg gtacgcgatg ggcagcgcgg cgtcgccctc cgcggcgtgc tgcagcgggg 120
 tgcgctcgct caacagccgc gcgtcgtcag cggcggaccg gcaggccacc tgcaactgcc 180
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<210> 39236

<211> 431

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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 gttcgcttc caggcggaga tcaaccagct gctatcgctc atcatcaaca ctttctactc 180
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 caggttcgag agtttgacgg acaagagcaa gctggatgcc cagccggagc tgttcatcca 300
 catcgccct gacaaggcca acaatactct gacaatcatt gacagtggca ttggtatgac 360
 caagtcagac cttgtgaaca aacctggtac catngcacga tctggcaca aagagtcat 420
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<210> 39237

<211> 260

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D12

<400> 39237

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 agagcacaga gccagtcttc tccgttttga tattgccatt gttaagtagg atcaacgtat 180
 acatgcatta ttgggggtca tttttgggtt tgtcctcacg gataattgat ggaaataaat 240
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<210> 39238
 <211> 381
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-012-Q1-K1-D2

 <400> 39238

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 tggttttcttt ttgcggacag gttttgaaag aggcgtctga tttacagcct agcactgggg 240
 aggctgccag tgcagacata catcgtgtat tagacttacg ggcacctgtt attgttaagg 300
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 atccattaat taccaaactt a 381

<210> 39239
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-012-Q1-K1-D3

 <400> 39239

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 gtcttgatgt tcttttcata aacaaatttg aagaacaacg taaagattat tgggaaacac 180
 tatactcatc ggtgcatttt ggtccaatac taatactctg ctcagaggat gatcaacttg 240
 ctacatatcc agttgttcaa aattttggcc agcatctgct agagcttggt ggtgatgtga 300
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<210> 39240
 <211> 260
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-012-Q1-K1-D4

 <400> 39240

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 gatgaattcc tacgtgtcca gcgccgagct cggcaccaac cttaacatga tcaaagagaa 180
 gatgcggtac gctagagtgc tgctggacgt ggccaaaaag agggacgacg tcgtcgccgg 240
 ggaccccaac cggctggagc 260

<210> 39241
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D6

<400> 39241

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 ctcggtcgg ccatgtccga gatccagcgg ctgaagcagc agctggaagc ttcagcagag 120
 tctgacgcgg cccgcgcgaa gcagtgcgag tacgtggaag ctgagatcga gggcttgaag 180
 caggagatgg agatccgcct agcgaccatt gagggcctga aggtgaatgt cagcgagagt 240
 gacagggctg cggctgaggc aaatgccacg gtaaagtga ccaagcagca gctggagaca 300
 gcgaaggcca ccattgactc acttgtagct gagggcgtag gcatgcagga atgcctgagg 360
 tcgaaagaca tggagctcaa tgagtccaag gctctcgtag catcgctcca agaagatatg 420
 gagaagtcac atgacac 437

<210> 39242
 <211> 428
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D7

<400> 39242

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 caatgacatg aaagagctct caagaattca agctaaagtt ggtctacaga tgccactgat 180
 gtctccgctt gattctgatg aagaaaagta ttctgtggct tctgattctg tttcttcagc 240

tgatcatgag aaggttcaac atggtggaaa ctcatctgac tcagagaata ttgattgtga 300
 tcataccact gaagattttg aatccagtga tactctctca acgaacagtt gatccctgcc 360
 tccccagcct caaccacctg tgcttgcctca tatggtctcc tgatatcgat ttatccgaac 420
 tggagagc 428

<210> 39243
 <211> 449
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-012-Q1-K1-C11

<400> 39243

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 aggaatttat gcgggcacgg acataattga tgtgcagtca tgataaaaga caaccatttt 180
 actagattca ttcgcaatat tggctcgggtga ctgtagatgg cagaatggaa tggctgggag 240
 cccatgaaga ctgcaatctt tgtacgctag gatgtatttg taatgttgta cttgcaaact 300
 gctaacttat ttctagttta agtatatgag acaattttgc aagttgcgcc tgaaagtata 360
 ttttctttct acgtctctat gttctggggg tcgcttgcct tcatnctgcc attatctgag 420
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<210> 39244
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A5

<400> 39244

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 tttgctcagg taaaggatgc cagtgatgag gaacaactaa ctggagatgc gggatgctct 180
 gagacccatg gggccgagga gaatggctct gacaagcaga tatagcgaag acatggactc 240

ttttggagtc ttggtacatg gcctgacgct gaacctgggt aaaacaggag tacgatgttg 300
 caatgtacat accaaccatg cgctgagttg gcgtgaaaga tatattcatt gttccactgt 360
 tgtctttaac caaacgtgct tgtttcttcc gggtgtgatt tttggtgatc tgacaatatc 420
 taattataca tttgggtgg 439

<210> 39245
 <211> 324
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-012-Q1-K1-A6
 <400> 39245

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 agtatcatgc cgcccacaac caaaagccat accagctaca gaagacaccg ccctcgacgc 180
 caccgtatgc ctcaatagca atcaagacga agagaaaccc accgaaccgc ccctgctcca 240
 gaaacccaaa cttcctaagc tcaagtcgta atagcatcag ctacacaact cctagcaaca 300
 cacaagccca ctgtacacct acgt 324

<210> 39246
 <211> 75
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-012-Q1-K1-A7
 <400> 39246

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 aatttaatat tcaac 75

<210> 39247
 <211> 70
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-012-Q1-K1-A8
 <400> 39247

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tctatatcgc 70

<210> 39248
<211> 297
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A9

<400> 39248

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cgggcaaggg cgccatgggtg gggagcagcg ccgtcgctcg gtgggtggcc aacggcaggg 120
gcaccgtcaa gcagtactac ctccggcgga agagccccga ggagtgcgcc cccaacaggg 180
gcctcctcaa gctcgtcagg aacaggaccg ccgtcgctc gcgctccggc cgcctctacc 240
tcgccttcca gctcagcacc gactaccgc agccgtacct gatctacgcc gtcgggc 297

<210> 39249
<211> 284
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-B1

<400> 39249

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ctcctgatcg cctcctgcgc agcgcagcag tcaccgccgg cgcagcccc gccaacgccg 120
aacgcgccac cggccaactc tgccgcccag gcgcctncag ccggaaacc ggcgccggcg 180
ccccagggcg cgtcgggagg caagaccgca cctgcgcca ccggcacttc accttcgggc 240
ccgaccactt cgcccccgcc cccgaccaca acctccccgg gttc 284

<210> 39250
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-B10

<400> 39250

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 atctcagcat tccaagtact tttgcgagtt ctgtgggaag tttgctgtga agaggaaagc 180
 agttggaatt tgggggtgca aggactgtgg gaagggtgaag gctgggtggg cttacaccat 240
 gaacactgct agtgccgtca ccgtcaggag caccgatccgc cgcctgaggg agcaaactga 300
 agcatgatat agctctttat atgattgggg tttcctgtag ttgctcttgt caggcatgtt 360
 gtggggggcct tatctagtgg aaatgtggaa tcaactgtact ggcttgtttt gacgagacaa 420
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<210> 39251
 <211> 437
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-012-Q1-K1-B11
 <400> 39251

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 cgacctcacc gactacctca tgaagatcct gactgaacgc ggctactcct tcaccaccac 180
 tgctgagcgg gaaattgtca gggacatgaa ggagaagctc gcctacattg ccttggacta 240
 cgaccaggag atggagactg ccaagaccag ctcttctgtt gagaagagct acgagctgcc 300
 tgacggacag gtcacacca ttggtgctga gcgcttccgc tgccctgagg tcctcttcca 360
 gccatccttc attgggatgg aagctgctgg tatccacgag accacctaca actccatcat 420
 gaagtgcgac gtggata 437

<210> 39252
 <211> 430
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 39252

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aaagtgatga aaaggctaca ttctgctgga aaaatgggag aacagtatga tccatgcact 120
gagaagcatt caactgtata cttcaatcta gctgagggtc agaaggcact tcatgttaat 180
acagtcattg gaaaatcaaa atgggagact tgcagtgaag ctgttaatac tcattgggga 240
gattgcgaaa gatctgtgct gcatacttat catgaactta tacagtatgg cctccgtata 300
tgggtgttca gtggagatac agatgcagtg attccagtga cttcaactag atacagcatc 360
gatgctctca agcttccaac aataactcca tggcatgctt ggtacgacga tgacngtgag 420
gtcgggtggat 430

<210> 39253
<211> 337
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-012-Q1-K1-B2
<400> 39253

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taccgccccaa agaagttgta aagctagggg ctccaggagct ggttaattat atgaagaata 120
tggttgctgc aagggaagtg agccagaatc aaacagataa gaggagcttc tggacctggc 180
tccgctcact gtttggttgt tacaaaaaga atcaaggatt gggaccagtt ccagcctagc 240
tgaaccatat cgtccgcatg tattgtcatg aattattcag ttttgctcca tctctcaagt 300
cagcgacgaa atgaggcatg actactatta ttatttc 337

<210> 39254
<211> 244
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-012-Q1-K1-B3
<400> 39254

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tgaaagcaaa ctccaggtca aatatcatta ctacagttac tgtcaatgag attgcaaacac 120
caggactgaa gactatctta agctttgctg ttccctgatca gagatctgga aaggttgagc 180

ttcagtat ttt gcatgattat gctggagtta atgcaagcgt tagtctgaca gccaatcctg 240
tagc 244

<210> 39255
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-B4

<400> 39255

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ttgctctaca aggaggagtt cggaagatg aaggagagag cgccggagaa cttccggggtc 120
gactacgccg tcagccggga gcagacgaac gcggcggggg agaggatgta catccagacc 180
cgtatggcgg agtaciaaaga ggagctgggg gagctcctga agaaggacaa cacctacgtc 240
tacatgtgtg ggttgaaagg catggagaat ggtatcgatg acattatggt gtcactggct 300
gaaaaagacg gaatcgactg gttcgactac aagaagcagc tgaagagggg agatcaatgg 360
aatgtggagg tctactaacc gctgaatttt gcagctgaca 400

<210> 39256
<211> 410
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-B5

<400> 39256

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tgccctccggg gatgacgcgg cgaagctgca ggagctcgac gagatgaagc gcaggctgaa 180
ggagatggag gaggaagccg ccgccctccg cgatatgcag gccaaaggctg ccaaggagat 240
gcaaggaggt gaccctagtg catctacagc tgaggcaaag gagcaggtgg atgcccgttc 300
tgtgtatgtt ggaaatgtgg attatgcttg caccacagaa gaagtgcac agcatttcca 360
agcttgtgga actgtcaaca gggtcacaat cttgactgac aagtttggac 410

<210> 39257

<211> 336
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-012-Q1-K1-B6

 <400> 39257

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 ttcggtgctt tggccctcgc gagttttccg ttgccgtgac catcttcggc gggcgtggcc 240
 atgccgggac atggggaaag gcacttggtg cagaggtcta tgactgcaac aacatgggtg 300
 agcaggagct gcctggaggc gggctcctcg tgtacc 336

<210> 39258
 <211> 176
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-012-Q1-K1-B7

 <400> 39258

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 ggtacctggg gttacagcag ttcacctgtg tttgatacat ctgccttggt acatttttgt 120
 gttgagttgt cggaacacat ctattatcat ctctaccata aaattgttgt ggcct 176

<210> 39259
 <211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-012-Q1-K1-B8

 <400> 39259

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 tcagaataga aagattcaga ataaacaaaa tttataggat tcaaataatc aaataaagta 180
 aaggtaggcg ggtaataacc ttatttatga caagtttcaa attggtaaag tataccccta 240

ggataaaagaa gaagaaaggg ctgagaaaac tcgcaagaaa agttccaacc gatcgtctac 300
 ttaaattcga acgggttttc aaagcacaaa aacgcataca tatgtcttgt ttcaaagcac 360
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<210> 39260

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-B9

<400> 39260

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 caagtccggc gaccacaagg aaaagaagga caagaaaaag aagaaggaga agaagaagca 240
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 ctgagatctg gtgtcgcagc acaggtgcaa cacaagtatg cttgctggat ggaggattca 360
 taccagctga tgctgatgta gtgtttcact ggtgtcatgc atgcatgtat cgggctatta 420
 taatcaaaaa gaaaaaagaa a 441

<210> 39261

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-C1

<400> 39261

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 tgatgactgc ttgagtgagg ctgcaacctt tcaaattgcca actgctctgc gaaggttatt 180
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 ggtccttaaa gacattcggg agttgggttcg gtcgatgggg aaggatatca aatcttatga 360

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<210> 39262

<211> 413

<212> DNA

<213> Zea mays

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<400> 39262

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gtagatatta ggagtcatt gagcagcagt agtaagaaga ggactggcag caatactgat 180

acagccagta gtctcctag gaagcataaa agtccaatga ttgaatgcga agctttgata 240

gacaccctac aatctttaaa ctccaaagac ttggatgtgg ccaaacagat acaagaagac 300

cacatagcta aaaataagaa gttagaacag gaaaaagaga ataaggagat agataaatgt 360

ttcgaactgg ccaaagaatg tggagcaact gaagagacag aggagttcta tgt 413

<210> 39263

<211> 375

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-011-Q1-K1-H10

<400> 39263

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ctcccgagga cggcctatga tcggcgccct gttctctcgg aattggcctc gccggcggtta 180

ttacttgccg tcatactgag tagcatgaga gggatcttct caagattgggt agggacctat 240

aggatgtttc cgtcttgcg gccgacgccg tgtctaagtc tcttaagacg taagagcata 300

tcggatgtct cgtttttatt gctactatac anaccccgaa gagcgcccca gaacgagccg 360

aggtgtccat ataaa 375

<210> 39264

<211> 369

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-011-Q1-K1-H11

 <400> 39264

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 tccaacgtca gtcttctctt tttgcgagtt gcagtcctat ctcgtagcta tcttggttac 240
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 cgtcgtctc 369

<210> 39265
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-011-Q1-K1-H12

 <400> 39265

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 tggttgtctc agaggactta agtccatgca tgtgcgtacg tgatgtctaca gtctcctcac 180
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 cggtgccatt taatccaaca gttccgtact atacttattc cctgttagtc ggtgcaacag 300
 tgaagagggtt tgtattgact gtttccttta atagcogtgt aattcgaac 349

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 <211> 341
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-011-Q1-K1-H4

 <400> 39266

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 ctgaataaag agaccgacac ccttattcgg tgtagattg tgcgtcacac cgtgaagcaa 180
 tattgccttt cgtactctat atccagaaaa cattgcgcag gaggcctttc ttaataaaga 240
 atcttgaaaa tggtatgcgt aaattcctgc aatccttgga gttctttgag gaaaatgaga 300
 ggaagaaact cgccatattc acagcccttg ctttttctca g 341

<210> 39267

<211> 291

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H5

<400> 39267

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 ctcaaaacac tatctgcctg caaccgacta tgaacacctt caagctgaga tttcacctgt 120
 ctcagcgatc aagccaatta cagatactcg acaagcttcg cacatctact agacatacca 180
 ctcacgcgcc tcagtaacca gactaataga cgctccctgg tgtcagtatt ctacaccgac 240
 ttatgcatag cttcctgcta cgacctaacc ggtgacatcg tatgactgcg c 291

<210> 39268

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H6

<400> 39268

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 ctgcaactgc aaccaaactc ctttctgata tgagataatt aggacaaaac aacagagcta 180
 agttgctttt ttttggggtc atgttaaaca atgtatgcag tattgctagt gcccctcttg 240
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<210> 39269

<211> 455

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-011-Q1-K1-H7

<400> 39269

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gccctacgca atcctgagga aggcaattgc atgcgctgga aatactgccc ctttaatttt  360
ctatacatat tatccattag aactgtana ggtacccatg gctctctggc ttccagatgg  420
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 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-011-Q1-K1-H8

<400> 39270

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gactcgtggc tgtacgagaa gttcacgact tgagggaact tgcgcgcgga ctacaacgtc  180
gcagggcagc acgtgacgtc tctgatcctg acgcagcagt ccggcgggcg cttcagctcg  240
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gcgggcacccg tg                                                    312
  
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<210> 39271
 <211> 471
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-011-Q1-K1-H9

<400> 39271

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ctatcactgc gggatatcga tcgacggact agcccctgac ctgagtcacg atagaggcga 180

tttgcccgaa cctatttccg gaaacgggta agcgacaaaa ggccgggatt aaggaccgtc 240

tggcacgcgt gcgggcgaaa agaggaagtc aaagacattc gtaaagacgg gccacggcga 300

gtgaggtctt ttattaaaga ccttaggcgg agtaatctcg actccttata tggagtccac 360

tgttgcta at gggaagatac ttggtggcgt aaaggtagag agcgacagcg agtctcgaca 420

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<210> 39272

<211> 285

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A1

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accgctgctt cgtcggcggc ctgcctggg ccacggacga ccactccctc cacaacgcct 180

tcagcaccta cggcgaggtc ctcgagtcca agatcatcct cgatcgggag acgcagaggt 240

cccgcggctt cggcttcgtc accttctcca cggaggaggc gatgc 285

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<211> 405

<212> DNA

<213> Zea mays

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<400> 39273

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accttctcac tcgcagctac atcactgggt accaagcttc caaggatgac ttggctgtct 180

acacttcggtt ttcgtctgct cctcgtcca agtatatcaa cgtagcaagg tggtttaatc 240
acattgatgc gctcgtgagg ctgagcggaa ttactgcaga gggccaaagt gtgaagggtg 300
aatcctcagc agttccttca gcccctaactc cagatgttgc tgaagcacag gcccagctg 360
ctgaggaaga ggacgatgat gatgttgacc tttttggtga ggaga 405

<210> 39274
<211> 484
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-012-Q1-K1-A11

<400> 39274

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ctcaaaaagc tcgatgagta ccttctcact cgcagctaca tctactggcta ccaagcttac 180
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ggccacggtg tgaagggtga atcctcagca ctaccttcag cccaactcc aaaatgtgct 360
tgaagcacag gcccagctg ctgaggagga agacgaggat gatggcgacc cttttggtga 420
ggagaccgaa gatgagaaga aggctgctta aaagcgtgct gcaactggca aggcttctgg 480
caag 484

<210> 39275
<211> 409
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A12

<400> 39275

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ttgtcgtcaa cctcaagcgg cagcagctgc agaagacgcc gccgccgacg ccgcctcgtg 180

cctcagttgc tatcaggagg aagaggtacc cagctaaccg gccctgctcg agtttcccaa 240
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ctgtacacgt acgtacgcag gctgaggctg aggaagttgc gagccggagc agaggccatg 360
gagatggtga acctgaagct ctacctggag aaccggtgca tcatcgcg 409

<210> 39276
<211> 197
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A2

<400> 39276

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tctccaacct cgatctactc gtggccagga gccacagcc caccgtatac gtgtaccggc 180
ccagccctga cccggac 197

<210> 39277
<211> 105
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A3

<400> 39277

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ggattattaa aatagattgg ggggttaata aatttaagat ggggtg 105

<210> 39278
<211> 464
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-A4

<400> 39278

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ctgctccaac aatgacggcg ccgatccaa caccaaatac ggtgatacgg ttgacaggtg 180
 cgtttgtag ctgttggtggc atgctgggct gatttttaggc caccgcctgg tttcaacttt 240
 caagtcattg aatcggtgct cagggctcct ctcttcacc ctgcgaaggt gacttatagc 300
 aatggtgcaa acagatgggg gacaccacat catgcccac cgtgagatct tggcctcaac 360
 gtcgattgag aagatgacgt tgcaaatatt tcagacttgt caagataaga agagacgaag 420
 gaagaacaat caaatgagaa accttttcag tcagtataga atga 464

<210> 39279
 <211> 481
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-H1

<400> 39279

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 gaagatgacc aaggaccttg cccttctcgt tcacggatct tcaaatatca cgaggagcca 180
 ttacctgaac acggaggagt tcattgacgc tgttgctgac gagctcagat caaggctggc 240
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 cgaaccgttt ttattatgtc gccattttct ttccctgtgc caccaccctg aatgaagaag 360
 gcctgagcta ggcgaacatc tgcaggccgc agcagtatgc caaatcatta tcattaccgt 420
 tgccattacc aattggagat tgccgtagat tccgcgatta tgggaactca ttacctgat 480
 t 481

<210> 39280
 <211> 315
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F4

<400> 39280

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cgagtttcca aactagctgc ggtaatccaa gggatctagt cagattttcg gagaggattt 180
 gggtttcgaa actagccctc aatcccatgg attctgggag atgattgcag ttaaaaatct 240
 agctcttaca tgatttatta cctgcatttg gtctttacat gctacagact agagtatatg 300
 gattttgtag ggcat 315

<210> 39281
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F5

<400> 39281

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 gccgcgagca cgtgtccatg cgcgacgggg ccggcgggcg acaccggacc tgcgtcgtcg 180
 tgcgcggcag ggagcgggag atcgcggttg atctctctc gcgcgcgcag ggccagggcc 240
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 tgctccacgt ccgccgcctg cgctggaagt tccgcggcac cgagaagctg gacctcggcg 360
 ccggcgaccg cgtactcgtc tcctgggacc ttcacgactg gctctttccc gcgcgcgaag 420
 cctctccacc c 431

<210> 39282
 <211> 306
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F6

<400> 39282

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 ttgcacgctc gaccttgcaa gctcttcttg tgctgatgtt cacactgagt tgaagttaga 180
 tgtcgctggg ttctctgtca gagctgctct atttctgtag gaactcctta atgtaacca 240
 ccagggcctg gttaattggg aattattaac actttgggtg tgatcactta tggttcaaat 300

tcttaa

306

<210> 39283
<211> 471
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F7

<400> 39283

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tgactatgg cctggacagc atcccgttcg gtggcatggg gcacagcggg ttcggccagt 180
accacggcaa gtactcgttt gacatgttca gccacaagaa ggccgtgctc aagaggagct 240
tcctggtcga gttcatgttc cgctaccgc cgtgtgacga gaccaagatc ggaatgctca 300
agcgcgtgta ccgcttcgac tacgtcttgc tcttcctcgc gtcacatcggc ctcaggagat 360
gaagcagccg gcggagagtg cgtgaacaat cgagccaaca gaatttgcac tcacaccgaa 420
cacacagttg ctagtgggtca attgtcggtc atactgatcg aagaatatgt a 471

<210> 39284
<211> 475
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F8

<400> 39284

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agtcatgcaa gcgtctgagg atcatgaaga gttctgaagc cataggtctt gcaccaagaa 180
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aacgcgtttt aattactagt tgcagggaga cctgtcttgc tcaactcgtt catggaccag 360
aagcaataat atatccgtgt gtagctggat tggcgttatg tcatgtcccc taccgtgact 420
accagaatct acttgggtgat tttatcccag tgctgctcaa taagtttatg cgatt 475

<210> 39285
<211> 164
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F9

<400> 39285

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tatgtacggg cggcgccac tgagaccata atcgtcatta acgt 164

<210> 39286
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G10

<400> 39286

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gttttagcgac attatggccg gtgctgtaga cgaggttcct aatatgcctc ctagtgagat 120
tggcctcggg aagtacgctg tgaggggttac tcctgctgat tccgagttta tcgctaccga 180
cgaggcctgt atcgggtctgc attgttaatc tccttattta gagtagtcta ctctgggtaa 240
ggaagatgta gtcaataatc ccgtttgccg ttatcatatc gccgggaagg agaccgctga 300
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ggcgccctaac gtgcgccggc gcgggatcgg tctcggatcc gggctatccc caccggagtg 420
ttccctagcc gaccacggta agaaacttaa gtc 453

<210> 39287
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G11

<400> 39287

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ttgttaatct ccttatttat actagtctac tccggattac gaagatgtat tcaataatcc 120
cgattgtggg tgtcatatcg ccgtcaatga gaccgttgac tcacgtt 167

<210> 39288
<211> 457
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G12

<400> 39288

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taaagagaag ataaccatct acgcctagca agccgtcccg actacagata agggcagaca 120
tacgctgtac cgaggtagtt acgggaacta taaggcgcaa atctctatga cctaaggtat 180
tcgattataa atcgaagaca accactacgt ggcgcctaga cacggcgcaa atctctatga 240
cgtaaccgga tctcccgcat atcgtaaaca cataaccact acgtgcgcct agacacggag 300
tagcccggt atcgtcttat actatactca taatcgctca gaagaaaaaa aaagcgtcta 360
atcaacaagt ggctctctta aacagaaaga caatcgctca acccatcaga tatacgctga 420
cttttgctcg aattagtttt taagctccca gtcccg 457

<210> 39289
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G2

<400> 39289

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aaatggctga tgggtgaggac atccagcctc ttgtctgcga caatggcacc ggaatgggtca 180
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cacagtccac gagaggtatt ctacgctca agtaccgat tgagcacggg attgtgagca 360
actgggatga catggagaaa atctggcatc atactttcta caacgagct 409

<210> 39290
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-011-Q1-K1-G3

 <400> 39290

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 tacttttggtc agatccacga aaagatgttc aagggtgacg catgaatgat agaggggtct 180
 gatatacctt tgggtgccac taggcttcag acttcctgca aaagcatgat cttgatctta 240
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 tcaccatatt ctgggatccc aactattgag gtgaatttga taatgctggc tcaatgatga 360
 gtgttgacca aactttgatg cgtgccttac acattctgca acctgcttag agaaaa 416

<210> 39291
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-011-Q1-K1-G4

 <400> 39291

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 cgttggcaag aggccagtag cgctagcaac ggactgatcg gagggtagcc gagcggtcct 180
 gtatacctct gctgccaacc tgctacgaga catcgaccac cagctgctgc tgcacgtcat 240
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<210> 39292
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 cagccagcgc ggccggcatg gaagagacgc cgcgggggca gcgcccgcag ccgcccgcgg 180
 cgcacgcgtc tnnctcgttc gcctcgggcg ccttcacacc gncgncgcgc gtcttctctc 240
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<210> 39293
 <211> 391
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-011-Q1-K1-G6
 <400> 39293

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 gacgtgattg ccgggacgag caccggcgcc ctgctcgcgt cgatgctggc ggcgcggac 120
 gagaacaacc ggccgctggt cgcgcacaag gacctacca cgttctacct cgagaacggc 180
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 tacctgcagc ccatcatctt ctgcagctac g 391

<210> 39294
 <211> 469
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-011-Q1-K1-G8
 <400> 39294

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 gacggctagc gctactggag gcgacgcctg gacggcgacc ccgcacactc acagccacac 180

cctccacctg tgtgactatt caagggctta ggccgagccg cccggccaat cgccgtccgc 240
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 gctatggggt tgattaatgc taatcctata atccatgaga aaaaagagag gcgtgccaga 360
 caggcaccag agaccacaga tgaaaatgca gcagagccca tagatcagct ggaaatattt 420
 gatcacatta gagatataaa ggatccagag caccgtact cacttggac 469

<210> 39295
 <211> 449
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-G9

<400> 39295

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 ggtaatatTTT ctaatcatcc tggtaatagt acttttacta attcggcggc ggttgcgact 180
 gtggaggcta cttctgctgg tgggtgtgag catcattgga ctattaatgg atcggattcc 240
 gaggataagt cgtatTTTgg cgggtttcct gatttttcgg gttcggtttag tgattttgat 300
 taggttgcta cttctaaggc gaaggagact aagaatggtt ggtcggttac gcctcttacg 360
 cctgttcctc ctacttaggt tcatgctatt ggtgaagggt ttgcgagaaa ttctgttaag 420
 tattctagtg attttctgg taataattc 449

<210> 39296
 <211> 271
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F3

<400> 39296

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 ggaggagatt catacattac gaggatacca tgggaggcat gagccagtgg tgccatatgt 120
 tgaggcaatt attgaggatg atgctgatgc tgatgctgaa ggggatgccca gttcatcagg 180
 gtctactatg gacactgaaa gtgcattaga tgttcatgaa gatgcaatcg agttcgaatc 240

agccgacggc catgaatgct atcttgagaa t

271

<210> 39297
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-D8

<400> 39297

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actgacaaag atgccaattc tggatatgag attgtgggat ttgaaattgt tccatgcagc 180
gtgaagcgtg atcctgaatc catattgaag cttaatatgt atgataaagt cgatcctgtg 240
aactgccctg tggagttgga aaaatctcaa ttggttaggg agaaagagaa gattcacttt 300
acttatgagg ttgaatttgt aacagtata tcaggtggac attacggtgg gatgcatacc 360
tgaagatgga gggttcgaag attaactggt tttcaataat gaactctttg atggtaattc 420
tatttttgggt 430

<210> 39298
<211> 203
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-D9

<400> 39298

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aaaaaaaaaa aaaaaataaa aaaagacagg cgcctataag gacatgagta tggtaagta 120
atactactac tctttatata ccttgatgca aatctaacca aattgttgat gattatcaat 180
cctctaatacg acaaaatatt cat 203

<210> 39299
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E1

<400> 39299

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ggacgcagcc cgctgctgga gcaccaaccc catcacaggc taccacagtg cgcgccgagc 120

acgagaaggt gatcctgcaa tttgcgaagg tggcttaaga catgttcacc atggactacc 180

ggtaccact gggagacttg catgccttcg cgatctgcct gagcagcttc gacaccaagc 240

tggactgcga gagaaccac cagacatggc tcaaagtcaa ggactatctg tctgctagac 300

gaacaccgag ggcccaaatt acgctgagcc acca 334

<210> 39300

<211> 498

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E10

<400> 39300

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cgtctcctac ttcgtctctt ttgggttcgt ctcttagac ttttggttaag ggttggacta 180

ctgagccttg taatccttag attagtgggt ctcttacttc tacttatggt gctactcatc 240

ctgtttcttc tggtactcct tcttctgttg ctggtgctta taccattctt ggtcagctctg 300

ctgttggttg gtcgagttag gtcagttgtc gtcggtatgt ggtgggttgg tttgggtcgg 360

tgcacccga tactaactcg ggcggtcgga ccaggcatcg tgcggcgctg aggtacacat 420

catcacacat acccatagc ctactctgac tcgtccgtca gtcgtacgcc gaccaccca 480

gtcatcatcc cactaatg 498

<210> 39301

<211> 443

<212> DNA

<213> Zea mays

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<400> 39301

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 gatactatga aaggcctaac ggacgataga cgccgttacg gtaactaatt tagtagatta 240
 gacgactgtg gcctacgcgt ggttcactcc cgagtaagct cataattaat cggtttatta 300
 gtggatatct ttcattacga ttgtagtaga cggatttagt acttgcgaga ctacgtacgc 360
 aaccaatcta gcctcgcca gtcataagcg accgcagtca tgtaatcgcg ggaagcacgg 420
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<210> 39302
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
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 <400> 39302

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 gttgttgctg ttgttgtcac gttctgttgt agtctaggaa ggctcgtttt atgtttagtc 180
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 ttcgcctgag acggcggcgg tcttacgccc ggaggaaccg ggcttattac cggcttaggc 300
 acggtgcccg gtatgggcag cgttacggtt ttatagggtc gcgacgtcgc accaggcttt 360
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 gcgacgaacg tc 432

<210> 39303
 <211> 187
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-011-Q1-K1-E2
 <400> 39303

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gggtggatag gccttttaac cgtgagcgac ggtgtccgct gtttatgtga ggtgcttggt 120
 tcgagtttat cgtctgtcaa aacatggact gtatttgact atctgttagc atgtcttttg 180
 agatctt 187

<210> 39304
 <211> 67
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E3

<400> 39304

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 tatggat 67

<210> 39305
 <211> 228
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-011-Q1-K1-E4

<400> 39305

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 ggcagcgacc gctgctcac taangcggtc gcgccgctnt aagagcgctt atgccccaaa 120
 gcgaagcggt acccgctctc aatcgtgtgc ttagtgccgc tttttggaac cctgtttgat 180
 ttttaatgga gatacactta tttgaaatat aattgatccc cagatata 228

<210> 39306
 <211> 427
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E6

<400> 39306

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 caaggcagat acaaagctgc atacacaagt gctaagcagc aatactttat taacattcca 180

gtgaaggtta cattcacaaa tcgagttgca cagaacatgg aactgcattc tgaacgagat 240
acaaccttac ttcagaatgg tcctacttcg cacggcaatg agccaacctt catgcctttc 300
ttctgagcga ttgccttcaa ttcctccgac atagcgctct cctcgatgat cacatgattc 360
aacctagcgg cgcgctgggc aaagagctca acattaccta cagcaatgcc cggacagcgg 420
gagatgt 427

<210> 39307
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E8

<400> 39307

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gagcacgagg aagagcgagc agcgagatgt cgtggcaggc gtacgtcgat gaccacctgc 120
tgtgcgacat ctaatgccag cacctcatcg ccgccgtcat cgtcagccac gacggcagcg 180
tctgggcaca gatcgagaac gttcgcgagt taaagcctga tgaggttgct gggatgataa 240
aggactttga tgaacctgga ac 262

<210> 39308
<211> 468
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E9

<400> 39308

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gtgcgagtag tgaagtagcc tatggacggc cggacggagg gtaacgatta gtcgtcgagt 180
cgtcgtcgtc ttcacgggt gattactagc ccgcaccgc ttacgttctg agcagttggg 240
tgctcctcgg tttcgggtccg cttagccttg gaaggtggct aagtttggcg aggtgcggat 300
agagattggg aagctagaga ctggtaacag cgagtcttag taggagttca tccgcattct 360
ccactcattt gcccgaagge ctttctctct gcgtcgactt ctgctccttc ctgacctact 420

ccgatcgact ttcatcgttt tagaatcgca ttggcgagag tagaagac 468

<210> 39309
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F1

<400> 39309

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cggctgcagc aacaacatac accgctggcc gtggcgacat gggcatcctg gaccacatgt 180
ctcatgtgtg cagcatcaca gagacgaagg acgcgctcaa gctcaagaag aagcgaccgc 240
tgcaagtcac gcttgactgt aatcattata tatttaattg cctcccatgc atatgcatgc 300
atgcctgatg agtgtagatg catgggcagt ggttgcagac agtgaacat 349

<210> 39310
<211> 482
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-F10

<400> 39310

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aagtcgtcta atcgtaggga gtctgagctg tgtgctggta ttgcgagaga aagttccaaa 180
aacgtaaaga gggaccccat taagatcgaa gatgatccga aactctcgta gagtgcgggg 240
taaacaaccg gagaggcctc ttgattctcc gacaacgaat gtcccaccgc gaaggtagt 300
agcggctttt gacacgcggc tggccgttga agcaaagcag ataaggagaa gccgatactc 360
ggaatctgcg ccgcatccga tacgatgatt ccgataacaa cgtgtatctc cntatgggag 420
gcggacttag cggcacacaa tacgtactac gaagacttag gaaacgctag ccatctcgtc 480
gc 482

<210> 39311
 <211> 374
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-011-Q1-K1-F11

 <400> 39311

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 ccactgcgac ttccacaggg gttaactcgc cggtttactc ctcgaggttc gcctactgag 180
 tctgagacta agactgagac tatgactcta cctattacgt tacgtcaggt gcacgacttc 240
 gggactaacg tccgaagtaa gtaccgggg atgtagaacg tcctcacggt cgaacacaca 300
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 ctgatcgtaa catt 374

<210> 39312
 <211> 380
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-011-Q1-K1-D7

 <400> 39312

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 cacggactca tactctgatg atcctcttgt gcctgagact gctcacatgt acaagaccga 180
 caaggccaag tatgagtgca ccgtaagctg ctggacacag aaatatgcca cgggctgcaa 240
 gcaaggctaa aagctggcca aactgggtta tgtgacctac cccaaatcga tatcatctaa 300
 ataaccagtc aagtctcaag tatgaatgga cttttgagga ccattgtgct ctgtttaact 360
 catgtattac cttgcgaagt 380

<210> 39313
 <211> 336
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-F2

<400> 39313

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gcctgagcta cgcttactcc gaggagaacc tcgacgacaa gagcgagctt gtcctcagct 120
ccaaccccggt gctcaagaag gtgcccgtgc tcatccacca cggcaagccc gtctgcgagt 180
cccagatcat cgtgcagtac gtcgacgagg ctttccccgc cgtcgacact aatttccttc 240
catccgaccc ctacgaccgc gccattgctc gcttctgggc cttctacgtc gacgacaagt 300
tctacagcgc gtggataccc gtgttcaggg gcagga 336

<210> 39314

<211> 418

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C3

<400> 39314

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gcgcgggcgc caagcacaac tccaaggagg attgctggct catcatcggc ggcaagggtgt 120
atgatgtgac gaagtttttg gtagaccacc caggagggtga tgatgttctg ttgtcctcaa 180
ctggcaagga tgcgactgat gatttcgagg atgtcgggtca cagcaaacact gcccgcgcaa 240
tgatggatga gtacttgggtg ggtgaaatcg acgcgtcgac gatcccttcc aggacgaagt 300
atgtcccccc gaaacaacct cactacaacc aggacaagac tcccgagttt gtcataaaga 360
tcctccagtt tttggttccc ctggcaatcc tgggcttggc tgtagccgtt aggatgta 418

<210> 39315

<211> 216

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C4

<400> 39315

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ggggcgggct ttaagcacia ctgcaactag gattgatcac tcatcatcat aagtaagggtg 120

taatgaatga gacgaagtta ttggtttacc aaccaagatg taatgatgtt gctgtgaaat 180
caattggctt agattcgact gatgatttcg aagata 216

<210> 39316
<211> 419
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-C5

<400> 39316

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ggtagacctat ctttgaattg gcattgccag aaatagctca aaagattaca cggttggaga 120
atgaagatac cttgcttgat tcttctgggtg agactagatc tcgtcacatc caaccacgat 180
ggaaacaagt cctactagcc gtaatggggc ccgaacaaca ccagcggccg gtggatggga 240
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ggtaggatggg atcacgcac cgtccctcgc cgttgttgcc ccatctgtgg agcacctcgt 360
ggccgngat gcctgccatg gcgaccaacc agctaccct ctctttccat ggcgagttt 419

<210> 39317
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C6

<400> 39317

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ggaattcgtg agcacggtgt cctgcataaa gatectctcc ccgcatgacg tgcagcagat 120
ggggaagcac ggcttgagc tcctgagctc ggactccgag cggaggctcg gtagcagctg 180
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ttcggtcgag ttgggatgag cagcaagata gcgcgcacgc agcagcagca gcagcaggtt 300
acgcattctc agcctcaagg taggtagggg actgaagggt tggctctgga cttgatgacc 360
cacgagctcc tcgttgccg ctttatctgc ctgcatgca tggatagaag ttcagcgcag 420
accaagcctt actctgctag ctatgtacca tctaataatt ctg 463

<210> 39318
<211> 341
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C7

<400> 39318

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tgtgaggttt cagatgatgg catgccactg gggaggtaga agggatggcc agtcaaacac 180
agacggatca aaggagacat ggtatgacgac cagaccatgc atgaggtgtc tagacgtaca 240
tagcgtctgt gtagtgtacc tgttgttaga gtgcgcgcgc aggtagagcg tgaacaggct 300
accatgtctg agatccaaga ctggaagtaa catgactgga t 341

<210> 39319
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C8

<400> 39319

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aggagcttag cgttcgcggg cagaggggctt acttcttgca ggagtttagca caccggtcct 120
agaactgcga acgcatggat gccaatgtct aagctcacag acttcgtctc atgcgctaac 180
taccattcac ttgagctgca tgatactcag gagaacctta cgcaatgtgc tgacgacctt 240
ggcattccat ttg 253

<210> 39320
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C9

<400> 39320

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tgtgcgggct gacttttata gagttagggt gcgtagggtg gtgggtgggt gagtgagtga 120
gaggaaaagt taagggtgga gtagcaggta gttattacta acaaagaagg cttaaagtacg 180
ctggggggcgc gggcgccctg gaatgggtgcg gcgaggtcgg cggagaattt gatgctgggg 240
aatgtgggtg tggtgttggg taagtgtgag gtgtcgtcgt atatgttgct tggggaggcg 300
gctatgcttc atgttcagtc ggagtgtgag tcggtgggtg ctggtcggga gtgtcatcat 360
gttgggtggc gagatggtcg tagtcttggg tcgtcgtagc attataagtg t 411

<210> 39321

<211> 386

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-011-Q1-K1-D1

<400> 39321

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gttcctgacc cgtatgatca caaacccata tgcagctggg cttctgagca tctgaaagac 180
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gccgtctgcg aggtgatcca agagtgcac gacctgacc cgacgcggcg gccgtcgatg 300
agagacgtcg tgggcaagct gcgagacgct ctncgcatct cgcccaggagc ggcngcgccg 360
cggctgtcgc cgctctggtg ggcgga 386

<210> 39322

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-D10

<400> 39322

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ggacgccgag cattgtcgtc ctgctgggtg ttctgttcgg gttatggatg attatctttc 180

ttataatggt cctagtattc atggtgaggc ttctgagctt aagactactt ctgactggga 240
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tgttactgag ggtacgaatg gtaaggagtc ggatggttgt aatactattg ctaatgaggt 360
ttagctttgt ggtggttgc 379

<210> 39323

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-D11

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gtgttggtaa gtgttggttg ttgcggtggg tgtgggataa taatggctct gtggatgtgt 180
cggatcgtag tgattattat tagtagtagt agtagtagga gtggactgct tctgtggtga 240
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ttgatttgcg ggagacagag ttgctgctgg aggatcatat gcgtgctact ctttgtgggt 420
tcaatttgag gatggcggtat actcctgggtg attgtgctgc ggaaggt 467

<210> 39324

<211> 223

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-011-Q1-K1-D12

<400> 39324

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gcttaagact acttctgact gggagatgta gaggccttgt agtcctggcc ctggtattcc 120
tcgtatggac gaggtgacgt ggaatgttac tgagggtacg aatggtaagg agtcggatng 180
ttgtaatact attgctaatag aggtttacct ttgtggtcgt tgc 223

<210> 39325
 <211> 190
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-011-Q1-K1-D2

 <400> 39325

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 aatgtaaact tattgtaaca caaaaaata tacaaataga cttataaaca tatgaaagac 180
 aagaactacg 190

<210> 39326
 <211> 407
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-011-Q1-K1-D3

 <400> 39326

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 agctcggatga tgatatctac aaatctgaga tatctgatca agaaataaca gcaaggacag 120
 gtgctactct ggaaggtagc ttcgaagagg atatttcacg ggaccaagag gcaaatgatg 180
 atgatgaaga tgagtgccat gtgaaatctg atggcgaatc agaggacact gaggagcaag 240
 atctggagga tcaacagagc atgccagatg atgtctctaa aatagagatt tctgaggaca 300
 ccgtctctgg tgacggatgc aaagaggatt tttctgaaga agtaacctcg gcagctgtgt 360
 tagcagatga tgtgtttgaa caatatgaca aactgtgga tgatgtg 407

<210> 39327
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-011-Q1-K1-D4

 <400> 39327

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ctatggttca tatacaggcc cagtctacag cacaatcaca tgcacagat ggtggcaaag 180
accctgatgc tcatgcaacc tcatatttgg tcaagaacac tcacagcaac atggagcctg 240
atgtgcagaa cagtatctcg cagctgcatg acatcactgt ggtaaaggcc aagcaagggt 300
acaggaaaag acatgtgtca gaagagataa tttctgatga gaaagcaagt gcttcaataa 360
cca 363

<210> 39328
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-D5

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cagcgccggc gcggctgggg agctcaggat ggggttctac tccgagagct gcccggtcgt 180
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gctcaactcc accgcctgca gcgtggtcga gaaggacgcg ccgncgaacc tgacgctgcg 360
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<210> 39329
<211> 383
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-D6

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gctcgccctc ctgctcgcg cgccggccta ggccgtcaac ttcacctgcy ccacgggtggg 180
caaaacgtgc cagtcggcga tcgggtacgc ggtgcccaac gcgaccacgt acgngagct 240

ggtggcgcggt ttcaacgccca ccacgacgct ggcggagctg ctgtgcgccca acggcctccc 300
 cgtcacgacg ccggcctcga cgccgctggc ggacaaggcc acgggtgcgcg tgccgttccg 360
 gtgccggtgc gggagcaacg gcg 383

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 <211> 469
 <212> DNA
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 <223> unsure at all n locations
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 gggttattgg aagggtgcgtt tggtgttcgt gctctttttg atgtttatgt tgatgtttat 120
 gttgcttctg gataagcgtt ttactgatgt gtcgaagtct ggtgtgcgtg cggatacctc 180
 tgggaatgag gcgtatactg gtgatgttaa tgctaagcgt cgtttgtctg cgaagggtac 240
 tgttgggtct cttgtggtgg tgcgttcgcg tattgttact aagggttaagg cgtcggatac 300
 tcttgctcat gcgtttactg tgcggaggc gtctgctaata cgtggtcgtg aggctttggt 360
 aggtcataaa cgtatccaaa tgatcttacc ttaccctact ttactctatt acgtgcgtat 420
 agtgaggctc ntccccgttt ctttgaacgt anagcccgaa aggtctgct 469

<210> 39331
 <211> 375
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-011-Q1-K1-A8
 <400> 39331

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 gtcttgaaaa tctttacaat ggaatctcaa agaagctctc tctttcgcgc aatgtcatct 120
 gctccaagtg caaaggcaag ggctcgaagt ctggtgcttc aatgaagtgc cctgggtgcc 180
 aaggctcaag tatgaaagtc accattcgtc aactggggcc ctccatgata cagcagatgc 240
 agcagccttg caacgagtgcc aaagagactg gggagagcat caacgagaag gaccgctgcc 300

caaggtgtaa ggggtgagaat gtcgttcacg agaagaaggt tcttgagggt catgttgaga 360
aaggaatgca acaca 375

<210> 39332
<211> 416
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A9

<400> 39332

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cctcatcata ggtccccgta acataacttc aacgcagtag aatgcgcagc aaatttcttt 180
aaataagtcg ctctcgcacc cgtagacata tagagtagcg aaattaaaga ctggacaccc 240
gacgagccta atagctcact agccgcacac tagaagttac tccatacgcc catagacagg 300
gagtactgcg ggttaccgga acatctagag gactccataa gtccgatcgc cggggtagag 360
gacttagaaa acgcaaccct cgtttaaaga cactaagaaa atgacaacga ctcccc 416

<210> 39333
<211> 224
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B1

<400> 39333

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aaaaactatt ctatagcttc acctaaactc cattcaatct ccgtcatctt acaacactcc 120
ttactcgga aacccttgcc ttacccaacc taatcaccat tcaacataat cccctttctt 180
ccacctgcct tataaccaaa aaaccctcac ccaacctcct ttcc 224

<210> 39334
<211> 452
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B10

<400> 39334

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cgtttcgttt tcgatttcga ggcgcagcct ctgttgccat gcaaggctcct ccggttccgt 120

gcttcttgct cctgcccgtc gacatactga ggcaccaaag aagtcgttcg accttgggca 180

gtagaggctg ttgttggtcg tagtaacggt tgatcctctt cggctctatgg cgtccggccc 240

ttcaccttct atacctaata taggtacggt gacccactgg cttaatggcg atgttggtct 300

tgctgtccct gctgcccac tccactctga ttcggcgggt tcgcctgttc gtccgtgtca 360

tcatgagtag ccggactagt agtatcttta aaagtgtgtg agggctaagg tcggggcccg 420

gagttctatg atttctcca tcactacgcc ta 452

<210> 39335

<211> 467

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B11

<400> 39335

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agggccatcg gccagaggag ggcagcccc agagtgcccg gtcggaacag acatctccgc 120

gtccgacaaa atagggatgt ccatagaagg aaaattagca gcgatcctca ccgtcctctc 180

ggtacacgag gagatagagg ctctctgtc cgctcgctgta gcggagaaaa tagtaccgta 240

tttaaccgta aacgtcacia cgaataaggc cgaatcatct aagccggaca ccttgactat 300

aagcggctag tccatactgt tcggaccggg ccgcccggtc gaagcagacg ggagcccagc 360

cgtagcgggt atcccggacc gggcgtacga ctgcccga atcaaagtac tgttaatcga 420

atcgagagat tccagaaatt ggtcggagcc caccgcgcta agcgaag 467

<210> 39336

<211> 466

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B12

<400> 39336

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tctttatgtg cttgattatg tgcgtggtga tgtgcttggc tagtcacgag gaaggtgaat 120
agcccgtaa ggagtacggc tcggcccca cggagggtact cgtcaaaatc gtataaaatg 180
ctgaggaggt acctaccaag attgtcggca taacacataa gaaaacttaa gacggtacac 240
ccgacgcact aaacgagctt aatgggacta aagccgggtca cgtcgccttt aatctactcg 300
gaggcggcgt cggctctgctt ctataggtcg gcggtcgctg tagccgagtg gcggtagtaa 360
gctacataac cgtaagggcc tctttttag cactccgacg cccgttcaca gtcgggtttg 420
gacgaccca ctccttagtt actatgccct aacttacgaa taaatt 466

<210> 39337
<211> 397
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-B2
<400> 39337

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ggtgctggtg accaacgtgg cgggcgccg cgacgtgcgc tccgtctcca tccggggctc 120
ccgcacgggg tggcagccca tgtcccggaa ctggggccag aactggcaga gcaactcgta 180
cctggacagg caggcgtctt cgttccaggt caccgtcagc gacggccgca ccgtcaccag 240
caacggcgcc gtccccgctg gctggcagtt cagccagacc ttcgagggcg gccagttctg 300
aggatgaaca gctagcgcgc gcgaggctag ctattggata attaattacg gtactgtcga 360
tttggttttt ttgccttggt tnttttttgc gcgacga 397

<210> 39338
<211> 275
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-011-Q1-K1-B3
<400> 39338

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gaccggcact caaagtgtca tggcgccact ctctcacgct gctcgttgat gcttgcttcc 120

gctgcaatcc ggctgccgat gccgcttata cagtgtctcag tctctctata gatcgagct 180
cgctgcactg caaacagctg taacagcagc cgcttgacgc caaccgaaca cgccctttca 240
tacttattca atatcacaag tctgtcctga gatct 275

<210> 39339
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B4

<400> 39339

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tttttcccca tattatctta catctgttat taatttgatt ccttagtatt ttgtctcact 180
tatgaagatt ttaaaacaat aatataagtc cttttacctc ttgtagtctc actatttcaa 240
gtttctgctt taaaatacct gataggtacc cttttgcgaa gacaatgcct ctgatgtgtg 300
ctggattc 308

<210> 39340
<211> 63
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B5

<400> 39340

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gtt 63

<210> 39341
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B6

<400> 39341

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cggccactca gcactcacgc tgctcgctcg ctogctcgta cacgcgcacg cttcgcgcac 120
ggaaggaacc gtggtggagg gagcggacag acatgatgca cgcccagccg aatctgacgt 180
gacaggcttg gcggcaacat cgccgccacg gcagctaaac cgggccggag atccggccac 240
cgccgctact aacttgacga gcccgctcgc ggagtcgcac gacggcggct acaagtcctc 300
gtcaatgcag ccaacgccgg tctacaacag cccaacgag tcgccgctgc accccttata 360
cggcc 365

<210> 39342

<211> 279

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B7

<400> 39342

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ggatcattct gctctcaggc ggagctcttg gtcgctggta cacgcgtgcg atcggcgcac 120
gtaatgatcc cagctggggc cagcacacgc gacatgatgc agcgagatgc tgagaggtga 180
cgtgactagc tgtggcgcgc gcctcgggta ccgcgatggg cagaagcgga gtcggcgtca 240
ccggcaatgc tcggatacta gtgcgcatag ctcaacagc 279

<210> 39343

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B8

<400> 39343

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ggagaagttt aacattcgac ataatgttgc tgaacttaac ggagtatata tggaatgttc 120
ctaagtcacc gaaacgcacg gagacaaata gctaaagagg aggagaaggg tgtatactta 180
aattttctta actttctcat aaatgatagc atctatcttc ttgacgagag tttgaacaaa 240
attcttgaac tgaaagaaat agaggctgaa atggctaaca tagttgagtg ggagcgcaga 300
cctgctcaag aaagagagga gcggctgcgt gtatttcatc agtgggaaaa tattgttcgt 360

tttgacatga ggctagccaa tgaggatgtt gggatgcttg cattcacctc tgaacaaaat 420
ccagcacctt t 431

<210> 39344
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-B9

<400> 39344

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ctatcgggtct ttacatataa ccccccgaga agccaatac ctgatacaac accgtcgagt 120
cctcggagca cccacgggac gccttcagct attgaaatgt acggagataa acagtcaaag 180
aggaggagaa gggcgccacat ccaaaccct ccaatccctc taaaaacgac agtactcact 240
cctccgatga gagcccgaaat aaaacctccg aatcgaaaga aacagaggtc gaaacgggtca 300
atacagccga gcgggagtgat agattcgtct aagaaagaga ggagtgggtcg tgcgcaccct 360
actagcggga aaacaccgcc tgccccgata cgaggtcagt taacgaggac gccgggacgt 420
ccgtacctat tctcgaataa ac 442

<210> 39345
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C1

<400> 39345

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tgtatgagct ggatttggga actgctcgta gaaaacaagt caacaacaac aaaacttgta 120
gggtccagtg ggctgacga gtccttaaaa aaatttggtc acttgc 166

<210> 39346
<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C10

<400> 39346

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gcgagtacgc tcaacgcggt agcgctacct atatatacat ccaacagcgt agaattcgta 180

cctatcgcgc cggtgctaaa gccttcttcc ggggagatgc ccttagcctt agctcactca 240

cctctcctcc ataactaccg gcggtcgcg ctcagtcgtc gctatagagt cgaatcccta 300

cacggccgga cccacgggcg tcacgatgct taattccgta cctgcccctt gtaatactcc 360

tctgaagagg ggtacgaacg ggaagcttgc tagcggtagc aaccatcacg tccgttcgct 420

aacaacgctg acggctacat cg 442

<210> 39347

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A7

<400> 39347

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tccactcact taaagtgtct ctggaagatc ttacaatgg aatctcaaag aagctctctc 120

tttcgcgcaa tgtcatctgc tccaagtgca agggcaaggg ctogaagtct ggtgcttcaa 180

tgaggtgccc tgggtgccag ggctcaggta tgaaagtcac cattcgtcag ctggggcctt 240

ccatgataca gcagatgcag cagccttgca acgagtgcaa ggggactggg gagagcatca 300

acgagaagga ccgctgcccc ggggtgtaagg gtgagaaggt cgttcaggag aagaaggttc 360

ttgaggttca tggtgagaag ggaatgcaac acagccagaa gatcaccttc cctggtgaag 420

ctgatgaaac gcctgatacc gttactggag aca 453

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<223> Clone ID: LIB3069-011-Q1-K1-C11

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cccgacacag cactgaagga tataaataga taaagaaatt atatagaata aaatcgtaa 180
gacaacgaca ttatataaga gaaaaaatag tgaggctggg ctcgaaattg tacgtactta 240
cacatacatt aggatttacg ccggtctcca caccacagaa ccaataaat cca 293

<210> 39349

<211> 448

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H10

<400> 39349

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gactaccagt gagtctttaa cataccggga ctactagcat accttgccctc actttccatc 120
tattctatga aaacctgcgt actgaactag gactctagat actagctctc attactacat 180
tataccgctc aatatgcatg gcctaataac agttaaacaa tcatgcaaac atcatactaa 240
ctcacattct acatgatcca aacttacgaa ctcatcatt ctaaacata attttaatat 300
actgccactt tagatgaacc cactttacgt actcatacat cctacttact agcaaatccc 360
tggcgtcacc caacttaaatt gcactgcacg acatactact atctccagac tgcgaaatat 420
ctaacattac ccaacttatt gcccttgc 448

<210> 39350

<211> 440

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H11

<400> 39350

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gagaacgagt tcttaaggaa gcggatggca acggctctgc tccagctatt gctgtcactc 120
cttatcgtct cctgcgcctc acagtcgccg tacgcgtcga atgctcctcc gctcagcgcc 180
tcagcgccaa gggttctctg tcgcgccacc gacatcagcc gtctcagcgc cgcaagcgtc 240

tgcacagccg ccgacaacag tcgccgcgtc tgggcctcat gcctctgccg tagcaccaac 300
 aaaagcatct ttactcctt aagcctctgc tgctccgtca actacagctg cctctccgca 360
 tctggctacc acttttgccc cagctttctt accgtcacta gctgctgctg cgccacctgc 420
 cttegtacc ccttcaacca 440

<210> 39351
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-010-Q1-K1-H12

 <400> 39351

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 tgctcaagt cctcgagggc tcacctcgcc ggcaaaacct atgtgtctgg tgactgcatt 180
 actaangatg acattaacgt cttegacctg gtgccgtcga agcctggcgc tgagtttgct 240
 aatgccgtcc gctgttacga gaccgtctct gcggctgtag cctcaagatt cctgctaag 300
 gctgttggtg taaatctgcc tgctggatca gctcctgctg cagctgctcc tcgggatgat 360
 gctgacgatg atgatgacct tgate 385

<210> 39352
 <211> 367
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-010-Q1-K1-H2

 <400> 39352

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 taaaagcaca tgcgatggac cactcaacg cgctcatca ctggctgccc tatctaattgc 180
 attcaatcca tctttaaacc caaaacacc attccatct cgctcaggct aaggttccca 240
 aagagcagct gccgtagctg cactatcctc tgtgtgact gctgagcatt ctggatcttc 300

agaaaatcta cgagccaaag ctagcagcac aggatataag actgatgtcg aatggcctgt 360
cataact 367

<210> 39353
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H3

<400> 39353

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tgcggtggcct ttttttgata agtcaccttt ctcaaataag cagagacaaa ttgtctgata 180
ttgggtctga gtacgaaggc gatgtggaaa atattaacga tgcggctgaa tttgttcttc 240
agaatttcat agaaatgaac aaactctggg tccggatgca gcatcagggg cctgcccagag 300
aaaaggaaaa gcgtgtgaag gaaagaaatg aactgcgtga tct 343

<210> 39354
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H4

<400> 39354

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gaaggtggcc gtcacaactgc ctttgtcaca aattacacac cccaattcta cttcaggact 180
gctgatgtca ctggaaagggt tgagttgctt ggtgagacga agatgggtttt gcccggtaac 240
aatgtaaccg cgaatttcga gttgatatcg cctgttcctc ttgaaactgg gcaaagattt 300
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atgaatttcc actttcttgc ccgtaacaat tt 392

<210> 39355
<211> 320
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H5

<400> 39355

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tcccgcacct tcttcgcgcc cgttcggggc tccgcatccg gcctctcccc cgtccccaac 180

cccattccgc agcaggcgac cagcacaact tctctaatec tccgtctcgc attctgctct 240

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tggcatctga tgattcacct 320

<210> 39356

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H6

<400> 39356

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gactgtcatc atgatgatga agtgtgaaga agatgagtca tctgagtcaa gcgagagcga 120

ttgtgaggac gaggcaacca tgaatgccga gcagggcttg gtgatctcaa cagcgtttcc 180

cgaggttgtt gcatcaagca tctcagctgt ccccgcgatg gagtgtgata aggctgcagt 240

gaaggccatg aagaaaatgg agaaggaaca aatgaaggcc atgaagaagt atggagaagg 300

aacagaagaa ggctgctaata aaggccatga agatggagaa ggaagcaaag aagatggcaa 360

tggctacact gaatggc 377

<210> 39357

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H7

<400> 39357

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 gctgggatgc cagtttatcc cttctagtct attacagaaa tgttgttcgg atctgagtct 180
 attataaaca tcttgggtctg agtttattgt tgagtgggtgc cagttttttt caatatacat 240
 ttatcttaaa aacagcggta ctgatgtttt tttgtctaaa gttaatgagt ttgcaatggg 300
 tctgagtcta aaaaaaaaaa ttaaataa 328

<210> 39358

<211> 261

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H8

<400> 39358

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 gcctgccgac cggttgctctt cgcaactaaa cccttggcag cttccgcccc ttaccttgcc 180
 ttcctaccgc ttgctttccg aataaaaacc gcccaaccct ggccaccgaa accttggtccg 240
 gcctaaccctc ttcccgggtt t 261

<210> 39359

<211> 419

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A1

<400> 39359

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 caagtacttc tttgatagaa atgtcacaat taactatccg tttgagaagg gtcctctgag 180
 cccccgcttc cgtggtgagc atgctctcag acgttatgaa tctggggaag agcgtgcat 240
 tgcttgtaaa ctatgcgaag ctatatgcc agcgcaggca attacaattg aggctgaaga 300
 acgtgaagat ggcagtcgcc gaaccacaag atatgatatt gacatgacca aatgcattta 360
 ctgtgggttc tgtcaagagg cttgccagc cgatgctatt tgtgaggggc ctaactttg 419

<210> 39360
 <211> 383
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A11

<400> 39360

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aaataaaaaa aaataatata acaggaaggg ccccaaatca aaataatgaa actcataata 120
tatcaaaatc aacaacatac gccaatatct aataagaata agtacaatc agacattaac 180
gacggtatcc tacgtaaata ttgaaactct caagaagctt taaacttcaa actcccatcg 240
ctagctcgat gtcgtcacag atcacagttt cgagttcata ctgccatcta ttgcactaa 300
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accactaccc gtcttcaaag caa 383
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<210> 39361
 <211> 480
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A12

<400> 39361

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cgaagtcttc agctagggca gctttaagaa gaaaaggtag aagcccgaca gcggcgacgg 180
tatcctacgt aagtgccgca gccgcaagaa gcttaaactg tcgaaatccc atcgcgagcg 240
ccccgtctgc ggagctcacc gcctcgagtt ccgcctgcgc actggtcgca cgaataatta 300
gagctacatg gaaatcgctt cactcatgtg gtaatagacc gaactctgta acttaccagt 360
acccgtcttc aaagcaacct acatactcga gttcggctcg gaatcaaggg atcctcttaa 420
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<210> 39362
 <211> 274
 <212> DNA

<213> Zea mays
 <223> Clone ID: LIB3069-011-Q1-K1-A2
 <400> 39362
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 ttatacctat gattgatgca ggaagtgtc ttatgaggaa caagacctgg ctgtctctgc 180
 tggatctttc tctgtaattg atgatgctgg acaccgtgga aagcgaatga gaaaatcatt 240
 ctctgatcaa gaagcatatt cagaagagtc aaac 274

<210> 39363
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-011-Q1-K1-A3
 <400> 39363
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 gatgcaggaa gtggtcttat gatgaacaag acctgtctgt ctctgctgga tctttctttg 180
 taattgatga tgctggacac cgtggaaagc gaatgagaaa atcattctct gatcaacaag 240
 catattcata agagtcaaac ggtcagaaca actctttaca gggcagtacg caagctattg 300
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 c 361

<210> 39364
 <211> 409
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-011-Q1-K1-A4
 <400> 39364
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caagacaaaag gagtggaatg acagaatcaa gcaagacaaa aaaccagagc aactacgatc 180
agctgccaga cagaggcatg aggatatggg aagaaatgct cggtttgcac aaatatggaa 240
gagtcgaaaa ggagaaaagg ctgnatgctg tgactcattg agagaaatat gccatctnta 300
tgatgctgtc caagtagatc ccgatgatga gaagcatcca gcagaaccac ggattacatc 360
gtttgaagag ggtgctgtct atgcaacttt cttccactta taagggaat 409

<210> 39365
<211> 219
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-H1

<400> 39365

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atgagtcccc tttgtctcat tgcgcggagc tctcaattga tcgaaagttt tgtagagagc 120
agagagcatt cacttcagat tacctggaac tactgccatg tattctgctg gtaaactcga 180
taagaattct ttgatcctgt ccagcacgaa ttttatgca 219

<210> 39366
<211> 167
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-011-Q1-K1-A6

<400> 39366

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aggtggctcc cctatttaaa gcttcggaag agggtttaac ccaaccggtt ttccccatct 120
ggtggggaac ttccgtgctt attgcgcgtt ccttacaatt ttccacc 167

<210> 39367
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-057-Q1-K1-H6

<400> 39367

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catcaatgac gagctgttcc ggcttcttca acacgcggac ctggatggcg cgggtggctc 120
ggtgttcgcg aataagcatg acctgaagga cgccatggca cccgcggaga tcaccgatgc 180
cctctcgctc cacagcataa aggaccacga ctggcacatc caggcctcgt gtgccatcac 240
cggcgatggc ctctacgacg gcctgggctg gatcgcgag aaagtcgccg gcaaggcgac 300
cgcgagctga cgtgcangag agcagtgggt gtgtgttcat gaacggattg gatttgttga 360
aaggtatggg tgggtggcagg gcggtttgt ttcttcctcg gcgtcacgcc caatgcttat 420
ttatggtttt ttaa 434

<210> 39368

<211> 186

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-057-Q1-K1-H7

<400> 39368

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gaagaaggta gaggtaactc aataaatcta ctgctgtccg gggaattaat tcaaagctta 120
tttctgcac cttggctttc tttaaaaata gcttcatctt gtgtatcccc atctgggtac 180
aaaaac 186

<210> 39369

<211> 333

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-057-Q1-K1-H9

<400> 39369

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gcacgaagca aacggctcnc aaatcgactg gcggcaaggc gccccgcaag cagctggcca 120
ccaatgcggc gcgcaagtcg gcgccggcaa ccggtggcgt gaagaagcct caccgctttc 180

gccccggcac cgtcgcgctc cgggagattc gcaagtacca gaagagcacg gagctgctca 240
 tccgcaagct gcccttccag cgctcgtcc gtgagatcgc gcaagatttc aagaccgacc 300
 tccgctttca gtcctccgct gtcgccgcgc ttc 333

<210> 39370
 <211> 377
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
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<400> 39370

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 accaaggcgg cgaggaagtc ggcgccgacg accggcggcg tgaagaagcc ccacaggtac 180
 aggccccgca ccgtggcgct gcgcgagatc cgcaagtacc agaagagcac ggagctgctc 240
 atccggaagt tgcccttcca gcgcctggtc cgtgagatcg ctcaggactt caagacggat 300
 ctgcggttcc agagccacgc cgtcctggcc ctccaggaag ccgccgaggc ctacctcgtc 360
 ggtctgttcg aggacac 377

<210> 39371
 <211> 362
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-B12

<400> 39371

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 agctcttgga ctgatgcttg ccattatgat gaagaacgca caggagaaat cccaagacga 180
 gaagaggaag acgcggtagc tgctgaatga ataggatgac atatggtgcc agggccacta 240
 cttcatagta ccatgtactc ctatcctatt gtactcataa taataatacg acgaaagatg 300
 actggtggga aatgaatatt gggctctgct aaaaaaaaaa atgggttaat tccaatcaaa 360
 ag 362

<210> 39372
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-001-Q1-K1-B8

 <400> 39372

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 gctgatatgg catatgctgc tgttggttg tgttgatatct gaggaatcaa tcagtctgta 120
 tcgagtctct tggcaagttt tctcttggtt ggggcaccc ggtatagtag ggaagaacaa 180
 tcgtgtgacc acatgatgcg cgatggtaaa ctgacaatgt ttggaaatgt aattggtgat 240
 gttttttttt ggaaaaaaaa aaaaaacata aaaataaaat aaaaacaaa 289

<210> 39373
 <211> 224
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-001-Q1-K1-C2

 <400> 39373

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 actgatggag aagaggtggc gggcgtgggg ctacgtcgag agaggcgtgt tcctgtaatc 120
 ctgtactcgc ttcgttctct ctgcatgctt ctataatcgt gttcaataat aagtgagagc 180
 ggtgtgatgt gtggatcccc ttgtcaggct aaaagacaat gatt 224

<210> 39374
 <211> 365
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-001-Q1-K1-D5

 <400> 39374

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 gtagagtaac ttcaggcgtt tctatcaagt gacagcctga ttagcagggc cgttactgat 120
 cggagggcac tggagggcac cccgagaacc ccatctccta cagcagtgtt aaaaccctc 180

cttcagaggc actggatagg gcgtggcccc tgacagccag gggccactcc actggctttt 240
 ggtgcccact gacccctttc agcagagact caaaggcctt cagaggcacc aaggacgcat 300
 gatgggctgg gcaggtggaa agactgggtac tttctaaccg aggctctgtc tctggccttg 360
 atctc 365

<210> 39375
 <211> 329
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-001-Q1-K1-E7

<400> 39375

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 cttatcgtag tcccgggtac caggaatggc tccggttgcc agcctgagaa cctcattgcc 180
 agttaagcat cgatgggcca acgctagacc gccatccatt atgtcggaca cattatgtctg 240
 tgaggttctt ttattctttc ttgcactacc ttgtccaggc tggcaaccgg agccattcct 300
 ggtaccggg tctacgatat gcagctctg 329

<210> 39376
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-B11

<400> 39376

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 ctatgtacag cttagcaatt cagtgtggaa gggctttgtg cttactgata tagcttagat 120
 ccatattgaa ctcttcaggt agcttttata gctatctagt ctaggagtcc agatttgtga 180
 ttttgcgat ttaggtgttc agttcttttg tacattgggt gagctagttg tgtgtagctg 240
 attctattgc agcaccaccg gtgagctcta gtgacctatt tgttgacctc tgctggaagt 300
 tgcactcttt gtgctagcaa ctgtgtcgtg actcgtgagt gctattgctc tgctgaagggt 360
 ataaaagttg ctggaaagga tgttcctgga aaaaaaac at 402

<210> 39377
 <211> 347
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-G4

<400> 39377

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 cagcagcagc agcagctgca cctccattcc acgggttccg tcgtgcgctt cgtctgcacc 120
 cacaaaggcg acggcgacgg cagggggagg agatgaagct gaagcagctg gagggcctct 180
 tgggtggcct gacccagttc tccgaccca aggtactgct gactgcgcca ccggcaccgg 240
 cccacctct tgggtggcct ttctttcttc ctttctcgta ccctgctcga tttcggctgg 300
 gccaaccccg acaagaggga gggggaaaag cggatgagta tctgact 347

<210> 39378
 <211> 322
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-002-Q1-K1-H8

<400> 39378

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 cgttgctggt agccacaaaa ggcttactcc tgtatgtgtc ttaagtggaa agggaaatgc 180
 tggcactgct gatgatcctt tgatggaatc tttgaagaaa gctatggctg atgcaaaaaa 240
 gccaggtcc atacaagact tgctgaagga gcaagtggct aaactcagag aacaagcatt 300
 cgggtggaggc ggaaggaatg gg 322

<210> 39379
 <211> 433
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-003-Q1-K1-B8

<400> 39379

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gctgagatca ccaacagtgc cttcgagcca tcttccatga tggccaagtg cgacccacgc 180

catggcaagt acatggcctg ctgcctcatg taccgtgggtg atgtgggtccc caaggatgtg 240

aatgctgctg tggccaccat caagaccaa cgcaccatcc agttcgtgga ttggtgcccg 300

actggcttca agtgccgcat caactaccag cctnctagcg ttgtgcctgg tggcgacctg 360

gccaaagggc aactgtgccg tgtgcatgga tctccaactt caccagtgtt ggtgaggtgt 420

tctcccgcac cga 433

<210> 39380

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C10

<400> 39380

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ggaacttggt caatatgctt caactttacg tgaaagtggg ggacccttat ctccaagtag 120

aatcctttct aatctgagga atattggatg tgccttgggt ggtggaactc aggaagatgc 180

ccatgagttt ctaaggcatc ttgtgatgtc tatgcaagca gcttgcttgg atgggctgga 240

tggtgagaag cacgttgaac caagtttgca ggaaacaaca ctgatacaac agatgcttgg 300

tggccgtctt aaatccaacg ttaagtgcct catatgctat cagagctctg aaagatatga 360

gaatataatg gatcttacta tggagattca tggctgggta gagtccttgc aagatgcttt 420

gacacagttc actgctcctg aagatttaga tggcgataat a 461

<210> 39381

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-C2

<400> 39381

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 ggtgctcgat acctagccta tagccctagc tagtagctag ccactcagtc gcgtagtcat 120
 caacctttctc atccgtaccc atggccactg ccgagggtcca taccctgacc gtcgtggcga 180
 ccgacgaagc gccagttgtg gagaccccat ctacgaccga tcgtccagcc cgacgaggct 240
 gcccccgctg tcgaggccaa tgtagacgaa ccagctgccc c 281

<210> 39382
 <211> 196
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-E4

<400> 39382

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 aaaaccataa cctgcacatg cgccctattc acaccctaaa cctataccat aaccacatcc 180
 aaatccttaa cctcaa 196

<210> 39383
 <211> 410
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-003-Q1-K1-F7

<400> 39383

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 atggggccat ttatggcttt gccaacgagt taggcaaccc tggcatgatg caagcctcgt 120
 cctctgggca gactgaggac agcatcccat cagctgcggt ccgtagggat cagcacagtg 180
 atctcgcgca cagagtctct gcagtgttta accaagcctg gaatgacgac caggacaccg 240
 gtcattctctt ggggtctctg tacgaggctt tctgagaagc catctactcc tttgtccaac 300
 caccatagat atgcttgctt gtgtagagag agacagacag acagagagat acagagagag 360
 atacagacag agagagagac acctagagag agaggaaatg cattgactct 410

<210> 39384

<211> 287
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-003-Q1-K1-G2

 <400> 39384

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 tttctccttt cattcttata tcaaccctct gctatccctc atcataaaca cattctactc 180
 caacacagac atcttctca gggaactcat tacaaactac tcctatgcct ttccccagat 240
 cataccctct agcacaacaa acaccttcaa acctaatacc cataaat 287

<210> 39385
 <211> 458
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-004-Q1-K1-A3

 <400> 39385

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 gctaagagaa agctcacctc agctgtttgg aaagagttca agagagtga gttcaatggc 120
 acagtccggg caaagtgcaa ctattgcttc aagcaacttt ctgcgtcaag taataatggg 180
 aaaaaacatc ttcattgttca tttaaaaagt tgtgtgcaaa ggaagattaa gttgaacggg 240
 aagacattgg cacatgcttc tttgagattt ggtagaacgg atgggtggaac agtttcaata 300
 gagaattaca catttgatca agaaatagct agaaatgaac ttgctgcgat gatagttctg 360
 catgaatacc ccttaagcat ggttgatcat gtgggtttcc gaaaatttgt tgggtgctctt 420
 caaccacttt tcaagatcgg aaccagaaac attgatag 458

<210> 39386
 <211> 239
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-004-Q1-K1-B10

 <400> 39386

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gaaccccaaa ccaaattgac cgccgaaaaa agttttgtgg ccaaaaactt agccacaaac 120
acattaaaca tgcgggaaaa atgctttccc aaaccctacg acgaacttac ataaataagg 180
ggatctacca caaacggccc ggcctttgtc taaagcgaca catggtttaa cccctccct 239

<210> 39387

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-B9

<400> 39387

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ggtatggatt tacgtcaatg cctgatctag aatgggattt ggaatcttct gttggggata 120
ggaaaatcac caacagtcac atcgctgcac ttattggtaa cagattcaag gcttcgcttc 180
gagatagctt agtgcttccg aattgtgaaa gcatctccat gccgtggatg ttggctgaaa 240
aggatgattg ggtacctcgc aaggatgctc cttttatttg gctaaatcat gagcccactg 300
agatgagaat ccatgccaca gctacagcat caactcagtc cgaggaaggt ggcttgaagg 360
atggtggggag tgaggaatca tcgagagtag tggcatccat tgacgaggca aaacatgagc 420
ccaagcag 428

<210> 39388

<211> 157

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-004-Q1-K1-G8

<400> 39388

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caacattgca acgggcaagc gagcactcaa cacagacaac acagctacgt gcactggaga 120
ctaaccgacc acaagagaag aatgcattct accagac 157

<210> 39389

<211> 302

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-005-Q1-K1-A11

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gtacggtgct caccggcgtg ccggacaacg tgtcggcggc gcacgcggcc ggggcggggc 120

tcgtcgacgg ggccttcgtc ggcgcccacg ccggcgaggc caagagccac cacgtcttca 180

ccttcggcac gatccgggac tgccggttcc tgtgcctggt ccggttcaag ctgtggtgga 240

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cg 302

<210> 39390

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A3

<400> 39390

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gagcagagat tttgttggtg ctaaaaggat tgcccttaaa gcacagagga ttttccaga 120

gatagagaac ataccccagc tgttaactgt ctgtgaagta cattgtgcag cagaagcaaa 180

agtaaatgga atgttggtt tttatggaat tctccaagta gaaggaacag cagatgaggt 240

gaccataaag aagcattatg cgaagcttgt cctctcactt caccctgatt aaaacagtta 300

tgctggtgca gaatctgctt tcaagtttgg tgcagaagca tactcaacat tgtctgatcg 360

aaccaaacga tatgcatatg atgtcaaatg gagggctgct tccaaagttg caccaaacc 420

agctacacag gcgacacaac ccaatcaggc tacaca 456

<210> 39391

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-005-Q1-K1-A7

<400> 39391

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acgaggagat gcttcgcgac gccttcgggt actacggcac catcgtctcc gtcaaggatga 180
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ctgctgagca agcaattgcg ggcatggacg gcaagaaatt aggcaaccgt attgttcgag 300
taaataaagt gcgtacaaga ggccccggc gatttggggc gagatgggtt cagacgagat 360
ccaagaaggt atggtagaga tccatactgg gacagaaggg acaggggaacg gagctatgat 420
cgtgaaagag atccctacca tg 442

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<211> 399
<212> DNA
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<223> Clone ID: LIB3069-005-Q1-K1-B1
<400> 39392

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agagtacaac acgattgaac cttatgcgaa aatgaacgag aactgtccgt ccttgcccc 180
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gctgcttcgt ttacacagtt ggcagtagag tgttgatgct atgttctgta aataaaagac 300
actatatata taggtgcttg gtagatggta gttcttacca ggaatgtagc tgcgatgtat 360
tcaggttcac ggttttcagg cgatcaggtc tgaagccac 399

<210> 39393
<211> 280
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-005-Q1-K1-B9
<400> 39393

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cttagtgccg ggccgagca tgctgccgtc cctgaacctg gcgggagac cggtggcggt 180
ggacaggggc agcgtgagc tcggccgggt cgccgggtg gacatcgtgc tgatgatctt 240
ccccgaggac ccccgcaagt cggtcgtcaa gcgcgtcgtc 280

<210> 39394
<211> 364
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-005-Q1-K1-D1
<400> 39394

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cttggggact gggcagtttt tgttcttgtg gaagcagatg cttgagcgga acttgagact 180
tctcttctca gagagttaga gttagcgtg ttgatgctac ctctctggaa acaacaaagt 240
ttcccatggt tgctatagac tggctgacac gtaataaagt ttcattccaa attgtgatcc 300
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caca 364

<210> 39395
<211> 402
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-005-Q1-K1-F6
<400> 39395

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cgatgcaa at gacaaattga atttaattcc ataaattaat aatgcgaaag tcttgagctg 120
ctcatgaccg cgagcatggc gtataccagt ttacactct gtagagggtg taccctttac 180
ccacaagtca tattactcat ctgccacggg gttgtacgga tctcatacac ctctaccaag 240
gaagcgaggc agggtaacac tacgaggcct ttacaaagtt ctactagctt cagaaaactc 300
gttacaattt ctaggaagag caatgcatga atctcccgtt tgatcgtat cgcagcaaaa 360
tcaacacgag aaccttcta cagctcact cccctactgc tc 402

<210> 39396
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-006-Q1-K1-F5

 <400> 39396

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 agaatcaggg ggtggtggtg ggcacatgcg cgaggagctg gcgtccgagg acgacgaatc 180
 cccaccaagg aagcaaccga ctgttcagca tcgtagaaaag gctgtcgtgt ttgatgacag 240
 cgactaggac tagtgtgtgt atgacctgac ctttacagtt tattttttcc atttcttgtc 300
 gagaatgatt tatctggaaa gaagatgttg gtaactgtta aaaaaaaaaat gttaataa 358

<210> 39397
 <211> 136
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-008-Q1-K1-B6

 <400> 39397

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 ccaaatttat cccaaa 136

<210> 39398
 <211> 72
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-008-Q1-K1-H10

 <400> 39398

 cccacgcgtc cgaaaaaaaa aaaaaaaaaa ttaaaaataa aaaaaaaaaa aaaaaaaaaa 60
 aagaaacggg ta 72

<210> 39399
<211> 340
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-A8

<400> 39399

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cttgcttttt aacagtgcac tagtaacagc gccggtcaca acaggggcgg tagtaacaca 120
agccaccgtt gccgtcacga ttattttcag ggaaaagaaa ccaacttttg ccggaagaga 180
ccaaccaacc atggcgtctc gagttcaaag agcctttaac atgtcctcgg agctgctttt 240
ggatgaacgag ccgacctcct tgaggttgag cacctttacc acgcgcctct tcgcgagcaa 300
tgcgtttcgg caggacctga ctccgagccc caagggcttt 340

<210> 39400
<211> 292
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-B6

<400> 39400

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ctttcaaaca ctaaatacatg acatttctat tattactttc attcatccac atatctttta 180
cacattcttg atcatacata aacaccataa tttcacaatc cataacttatt tcctcacaca 240
tcttatatca tattacatct accaaacaat atttttaaaa atcatttata ct 292

<210> 39401
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-D10

<400> 39401

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tgcagcgcga cgacagccag caatggccgc cgcccagtga ggcaggggtcg cagtgcgggc 180
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gccgaggacg acgccgcggc cagcgccctg ctgtgcacca ccgacgacga cgacgggtgc 300
tgctccgctg tcgaggagga ctcgggggc gcggcgccct ccacgcccga gctcatcggc 360
ggcgaagccc agtactcgcc caagccggac taccgccaca ggc 403

<210> 39402
<211> 298
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F1

<400> 39402

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gctttttgat gcttctcttg gcagctggac ttaatgtttt gctattcttg tcgacatcac 180
gagttgaatt gtcaaactag tctcttatgt tctatgctga tatgccttaa ccagaaaaaa 240
aaataaacac aagtaataaa agaagcatga ataatactat tctcttaaag gttataaa 298

<210> 39403
<211> 473
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-F6

<400> 39403

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cctcgagggtg gagtcgtctg acaccattga caacgttaag gccagatcc aggacaagga 180
gggcatcccc ccagaccagc agcggctcat cttcgctggc aaacagcttg aggacgggcg 240
cacgcttgct gactacaaca tccagaagga gagcaccctc caccttgtgc tccgcctcag 300
gggaggcatg cagatctttg tgaaaaccct gaccggcaag actatcacc tcgagggtgga 360
gtcctctgac accattgaca acgtcaaggc caagatccag gacaaggagg gcatcccttc 420

agaccagcaa cggctcatct ttgctgggaa gcagcttgag gacgggcgca cgc 473

<210> 39404
<211> 277
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G3

<400> 39404

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ccttcgggggt ccttttcaac cggcgccgcc gactctcgtg ttccctccccg cgtcctcgtt 120
ctccttgctg ctggaccgcg tcgtggggat cgacctgatt tctcctgtgc tggcttccaa 180
ggtagaaaacg aagtcttttg ttacatcatg gccttaccaa ctgcagcgcc tattttgctt 240
gaccagaacc aacagctcaa tataggcaac agggcca 277

<210> 39405
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-G9

<400> 39405

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ctccttgctg ctggaccgcg tagtggggat cgacctgatt tctcctgtgc tggctttcaa 180
ggtagaaaag aagtctttcg ttccatcatg gccttaccaa ctccagcgcc tattttggtt 240
gacgagaacc aacagataaa tagaggtaag agggccaatg gaccaagggc caaagggctg 300
aagccatgcg agaatcctgg caatcaaggg aggagagctc ttaaagattt gtccaacttc 360
tctaaaggca ctggtttgaa ggacactttc accctgaaag agaagtccca gcagaaaact 420
cgtaataat 429

<210> 39406
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-009-Q1-K1-H6

<400> 39406

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ggacaaccgt ctcaagattg ggcggtcat ctacttggcg ttgcttgggc tgatcattcg 180
cacagcatct ttoggcatac acctgctcat catggagatg ctctaaactc tgggtttata 240
tgtgagctcc acgctggggt aaccgcacaa gttactcatg gtctgagcat cataactttg 300
tgacactggg cttttgggat tctatagtgg agttctogtt tctttctttg 350

<210> 39407

<211> 287

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-E3

<400> 39407

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gcgtaatcta ctgcgaggac ggtgaacgat gtcaaccgcg acgagatcgt caaggcctac 120
tacgccacc tcaagcgctc cggcaagatg gagtccctg agtgggttga cattgtgaat 180
actgcgaggt tcaaggagct tctctcttat gatcccaact ggagccaatg tgacgaaggc 240
tgctgccaa gaaagaaatgat ctatctggct ggtgacgaaa gctgctg 287

<210> 39408

<211> 373

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-010-Q1-K1-F4

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ctccgatgac atcgtgttcg ttaccgttct cttcaagctc ctgtttggtg gcaagaaacc 180

agtggcacct gtgaaacctg cagctgatgc gaagaagccc aaggccgtgg agactgacgg 240
 tgctggaagc agtgggtgaca aggatgagaa agaggatgaa aaggaggaga caggcccacg 300
 tttgaggacc cgaaaggaga catagacctg tttttgacgt gtttttagctc ttctggcgctc 360
 tgcttatattt gag 373

<210> 39409

<211> 185

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-010-Q1-K1-G10

<400> 39409

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 gacatctcat caagaataat ctcccatgg tgcaatacta actcaatctc cttatatagc 180
 atgca 185

<210> 39410

<211> 139

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-A5

<400> 39410

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 gtgctatagt ctgtattatg gatgcgtatg agtattgaga tgattctgca tttgaattgt 120
 cggcttaaaaa aaaaaagac 139

<210> 39411

<211> 188

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-C2

<400> 39411

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ggtatgatct gtataggcga actgctcgta gaaaacaagt caacaacatc aaaacttgta 120
 tgggtccagtg ggctgacta gtccttaaaa aaatttggtc acttgcaaaa cacataaata 180
 attataat 188

<210> 39412
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E5

<400> 39412

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 gagaaggact ggccccactt cgttgaggcg ctggggccct acgccgtcac cgcggtcgtc 240
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 aaccaacgcy gcacgtcgg gcacccgccg gagaccaaga cggagagctc cccgggcccc 360
 gtcgacgtc tcgcg 375

<210> 39413
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-011-Q1-K1-E7

<400> 39413

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 caaggcagat acaaatctgc atacacaaat gctaagcagc aataactttat taacattcca 180
 gtgaaagaca cattcacaaa tcgagttgca cataacatgg aactgcattc tgaacgagat 240
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 aacctaacgt cacgctgggc aaagagctga cattacct 398

<210> 39414
 <211> 85
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-011-Q1-K1-G7

 <400> 39414

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 aggagtgatt gacgaaacta agcac 85

<210> 39415
 <211> 131
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-011-Q1-K1-H2

 <400> 39415

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 aaaaaaaaaac a 131

<210> 39416
 <211> 260
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-011-Q1-K1-H3

 <400> 39416

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 gattttgttg gtgaaaacga tttcttttca gacttgcttc tggtgagtgc tatcattcca 180
 tatcaatgta cttcctcttc tagaattttc gatgcccga agttcaaaag taaatttaca 240
 atgtagcgac tggtaaaact 260

<210> 39417
 <211> 288
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-012-Q1-K1-D5

<400> 39417

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taagatgttc gaggcactcg gcgtcctccg tgacatgcac cataatgtcg ccaacgtgat 240
cctaccagga catgtctgaaa cgtacacggt tcatacgaat atgactgt 288

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<210> 39418

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-E8

<400> 39418

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gaccagggtc caccgttcca gagtagccaa gcgaatcccg tgtctgggtc gcgcgatggc 180
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ccaggccgag gtgtgctcgt ctgggctcta cggcctcgcc aaggaccagc ccggcccgtc 360
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<210> 39419

<211> 65

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-015-Q1-K1-H5

<400> 39419

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gagga 65

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<210> 39420
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-017-Q1-K1-G1

<400> 39420

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 accttacaca taaaataaag gtggcctcgt atcggattag ccattgaatt ccgatat 177

<210> 39421
 <211> 296
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-B1

<400> 39421

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 tgtaccgaga tttttgaact taaagcggta ctacgtgctg ctaacagttg attaagtatt 180
 tttctttgcc tctatcaaaa aaaaatcatt aatcaactgt tagcgggtact acgtgctgct 240
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<210> 39422
 <211> 423
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-018-Q1-K1-E6

<400> 39422

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 ccgccgctgg ccgcgaggtg aggctcgtca gcgtcagcac ggaacctgtg gatgtggttc 420
 ccc 423

<210> 39423
 <211> 340
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-018-Q1-K1-G5

<400> 39423

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 ctagcagagg ccgatatcaa aaaggcactg gaaatcgatc ctgacaacag ggatgtcaag 240
 ttggaatata agatcctgaa ggagaagatc aaggagtaca acaagaaaga cgccaaattc 300
 tacagcaaca tgttcgccag gatgacaaag tacctttggg 340

<210> 39424
 <211> 241
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-019-Q1-K1-E11

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 ccggcgctcg actggagcgc ggggtacctt aacgggtggc tgtcgcagcc gacgccgatc 180
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 c 241

<210> 39425

<211> 376
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-020-Q1-K1-B1

 <400> 39425

 tagcactccc agtcccgggt cccgccgtct tctcgacgct tccccctct tcttccgccg 60
 ccaaccagc gagagagctc ccagtccgag aagacatggc ggggaagaag cgcaagtccg 120
 gctccgagaa gccgacgaag caccgcctcc cgctgggagc cgatgccgac gctgtccgcc 180
 aagcctcgaa gcgccgccga tcgggcccga ccaagcagca ccaggcggac gaggaagcgt 240
 ccatcccgcc ctctctcagc gccaatatcc ttccgagagg gcgcaagcag caggaagagg 300
 agatgcgcgc cgactccagc gacgaacagc gaccctcagc cgccgaggcg accgcggggc 360
 cgtccacgct gtcctc 376

<210> 39426
 <211> 62
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-020-Q1-K1-B5

 <400> 39426

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 gg 62

<210> 39427
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-020-Q1-K1-C4

 <400> 39427

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 cacgttagta tacaacagtg gaataggatt tgtttgtaat gttattagat gcgggcacct 120
 gttgccatt aagctatggc atggtatccc tggtttcttg tatatcttgg agagcgtcag 180
 ctcttatgca ggacatagtg ctatgccgct aaactcttgt agaatgttg taggcaataa 240

accagtgaca cttgtcgaaa aaaaaaaaaatg taatataact aatataataa ttctagaagt 300
atgcacagag tcta 314

<210> 39428
<211> 410
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-C7

<400> 39428

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ctcacctcaa ggaagtgaaa gtagtaatct acaagttggt caaggcaact tgaaacttca 120
atataatgaa gctggaaaat tatccctgta ctccgatagt aagactatgg ttcaagcaaa 180
ctttgagcag aaatacaagt attatattgg acaggatgga aatggaagtg atcctcaggc 240
ttctggagca tacatatntc cgcctaattg cacagttcca atcagtactg atgggcaggt 300
ttctctcaca gttctgctg ggcccatatt ggatgaagtg caccagcaga taaattcatg 360
gatttatcag attaccaggg tttaacaagga gaaagacttt ttggaaactg 410

<210> 39429
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-G12

<400> 39429

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gtttctgata tcttctgtgt tggctgtgga tccatagttg ggtggaaata tgatgcggca 120
catgagaagg gccagagata caaggaaggc aagttttattc tggagaggta caaggtgtcg 180
ggccctgacg gaagccaata ctgggttcca caagatgctc acttgggcg aagcgacgcc 240
gatgacatat aaaacacgat ccaacaagct caagcctgtc gttgatcccc tgtaaataac 300
ctgngtggcg ttgctcttta ggcagccgac agccggggat tgctccattg aaataattcg 360
ccggcgtaaa ttgttgctgt tccaggtgac atgatcgtat ccctcccttc ctgccgttgt 420

ccctggaagt cattagatgt taccgctgta tatgtgcg 458

<210> 39430
<211> 449
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-020-Q1-K1-H10

<400> 39430

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cagaggagaa tggggagttc ttcttctcca aactccttgg tatgagcata atccaaccgg 120
agttcagtga cgcgaggatg gtctcatgtc aaatcaatgg atttttccgt gagtgcattgc 180
tctcacggtc aggggaaatg gaagaccttg tcattgaact ggccgacaga tgcaacctaa 240
ccaccaaacg cagcgggcgt catcttgtca tatcggaag ctgggacaga gataagattt 300
tattcgagag catcgacttc tcacggatac ggtcaatgac agtgtttga atgtggagat 360
cattcttcat ctccaaaagt atgaagctcg tccgggtggt ggatctggaa gatgcattag 420
gtttaacaga tgaaaatggt gatcagatg 449

<210> 39431
<211> 156
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-A5

<400> 39431

aaagaacaaa atgacaataa aaaatttaaa tatcaaaaaa aaaaaaaaaa aaaagagaaa 60
ggaataaata aaaaccggag aaaggcaatc catcaaattg gtccgccgat ctgcagcacc 120
ctacctttcc ttccggtgct cccaacttcg tctctt 156

<210> 39432
<211> 404
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-B8

<400> 39432

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tgacccgate ttccagattt cccgtcgccg agccacgcgg gtcgagtacc cgtcgaactc 120

gccgctgtcg gatcgttctc gcttggggcg atcaagctaa cgggatttga ggagatctag 180

gccagccgcg ggcagcagcc atcagccatg agcgaggtgt tcgagggcta cgagcggcag 240

tactgcgagg cctncggctc gctctccgcg aagtgcaccg ctgcatccga cctcgatgga 300

aagaggaaga agcagaagct cttcgagatc cagtccggcg ttgaggaagc tgaatcgctg 360

attcggaaga tggacctgga agcaaggagc ctacagccta gcat 404

<210> 39433

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-021-Q1-K1-D8

<400> 39433

aagcttatca gagagctgtg aagccttgct tctgtactgc tcgagttctt cttcaaccog 60

cttgaacttt tcatatgtgt gattcagctc ctgctccagc tcctgtgtcc gtgagtatac 120

accttcagca tgagtctttg atgtgtgaag caaatcttcc agctccagac ttctttgccc 180

aactgaatga gcttgcttgc cgaactgaat gcgcttggtc ttgatgctct gaacatttat 240

cagtcagctc cttgacttct tgttcaagta gctgattttt agacactgag gaatctaggg 300

aggattgtag ctcaataatt ttatctttgt atccctctgc actggtcaca gtttcttcaa 360

gctgcattcc tctttctgct gatacagcag cttcttgatg aatacgctct ttcagcaact 420

ctatttcttt acttgattta acaaatttat tct 453

<210> 39434

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-021-Q1-K1-G8

<400> 39434

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ggcgcgtcgc tctctctctt cccagccgca gctggctcgc gggcgggcgg tcttggcagc 120
ggcgcgtcgt ctgctggcgg cgggggcccgg gacggcgctc gggcggtga gctgcggcga 180
ggtgacgtcg tcggtggcgc cgtgcctcgg gtacgcgatg ggcagcgcg cgtcgccctc 240
cgcggcgtgc tgcagcggng tgcgctcgtt caacagccgc gcgtcgtcng cggcggaccg 300
gcaggccacc tgcaactgcc tcaagagcat gacggcccgg ttgcggcgg cgtcagcatg 360
gccaacgcgg ccaacatccc cggcaagtgc ggcgtctccc gtcgctgcc catcagcccc 420
accgtcgact gcaccaagat caactgatcg atggaacct 460

<210> 39435
<211> 449
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3069-021-Q1-K1-G9
<400> 39435

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cgatgcaaatt gacaaattga atttaattcc ataaattaat aatgcgaaag tcttgagctg 120
ctcatgaccg cgagcatggc gtataccagt ttacactct gtagagggtg taccctttac 180
ccacaagtca tattactcat ctgccacggg gttgtacgga tctcatacac ctctaccaag 240
gaagcgaggc agggtaacac tacgaggcct ttacaaagtt ctactagctt cagaaaactc 300
gttacaattt ctaggaagag caatgcagga atctcccggt tgatcgctat cgcagcaaaa 360
tcaacacgag aacctnccta cacgcccact cccctactgc tcttgccctt tcgggtaagg 420
tagttctcca ctagctttcc taattagtc 449

<210> 39436
<211> 344
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-022-Q1-K1-A5
<400> 39436

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gcaagcaatc gagcgtcagc agatcatgat cttagtggga agaagggaag cactctgcgc 120
agcgggtcaaa cttattgaac gagttggagc aaagggtgtt gaatgtgctt gcgtaattga 180
attggcagaa cttaggcgc tacacgaaca aggggacatg ccagcactgt gtctcgacga 240
aacacatgct tgaccggaac ttgtgattta atacctcaca gagttagagc tagagctgga 300
gatgctagct gtctggaacc accagagtac tcgatgtatg ctat 344

<210> 39437
<211> 435
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-B12

<400> 39437

cccacgcgtt cggatgatagc aggggtgcagc ggctcgaagc tggaggaagc ggacggggttc 60
gccatgggggt ccgagggatc ctccgggtcca gttgtcgctt ccagaaactt taggctgcta 120
gaagaactag aacgtggtga gaagggcatt ggtgatggaa ctgtgagcta tgggatggac 180
gatgctgatg acatatttat gcggctcctgg acaggaacta tcattggtcc tcccaacact 240
gttcacgagg gacgaatcta tcagttaaag ctgttttctg atacagatta tccagataaa 300
ccaccgactg tccgattcca gactcggatc aatatgacat gtgtgaacca agaaactgga 360
ttggttgaac caagtctatt tcctatgctt ggaaagtggg aaagggaaca tacgatggag 420
gacattctga ccagc 435

<210> 39438
<211> 109
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-D12

<400> 39438

tggaacagaa cgctccgcac caatcaattt tcgaacccat gatatgccat tacagacggg 60
cttaatcact gtctgcgccg tccagcctca actctttcac actgcccc 109

<210> 39439
<211> 300
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E12

<400> 39439

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gaacctcaca tatcgatgcc tcacgttcca ttatcaattc caatgagggg acaaccactc 120

actgcgctgt ctgctacaag actaactacc ttgtgcacta cctcacacgc acgacatgcg 180

catgtgctac aggcgggttct tccgcttcct ccacttcaag gggtagcttc agctcgtgaa 240

ctacaacttc ttcgactgag tgctctactt gattcattac ttctacccca tggctcctgaa 300

<210> 39440

<211> 227

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E3

<400> 39440

ataatatggt ggtatggtat agacgatacc ctaaatacaa ttgactgagt agggacatga 60

ccacgactgg actgagtaga ccctaacatg acataacgat gtctataagt agcagattca 120

catatgacta tctgacggga taactatgag gctcgaactg attgccctag cgatcaatga 180

cgcaacatgg gagtacatta gatcacgatg agtatctgag aattgag 227

<210> 39441

<211> 470

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-E5

<400> 39441

ggaattggaa ttccgagcta gacgtacgcg tacgcccacg cgtacggcga aagaccata 60

catagatgcg atcgacttga agaaggcttg taacggaacg ttaaaaaata ttatatggtg 120

gtatggagaa acataacaaa atacgttaga ttcattaagg acatgtacaa caatgttatg 180

aatagtgttg aacaagttat aaggatgtat ataacttttt gattaaaata ggactatatc 240

aagggtcaac tttgagcctt tacctttctg ccctagtgat agatgatgtc acaaggggaat 300

acatgagatg aacatgaata tatgagatat gtggctatac aagaatggat cgagttcaaa 360
atgatgatat acgctataga ttataagtag cactagcacc aattaaagaa aaacatatc 420
aacatcgatt gagatagttt ggacatgtac aacggagatc ccaaacacac 470

<210> 39442
<211> 345
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-022-Q1-K1-E9

<400> 39442

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ctgatagttt atctggagca gtttcatttt acatatgact gtaatttgtg agaatgcaca 120
tcttacgatt tttgttgacc agtattcata gggttttagt tagcaatgtg ttgttgcccc 180
gttgctagtc cttgtaatac aagcccacct gtttttttgc gcacggcaag acttaaaactg 240
acaacatttt gtagtacctt ttattttgta tcacctgtc tatacacgag ttttcttgga 300
acatcggaat taataatgcc ctccaaaaaa aaaaaaannn aaaaa 345

<210> 39443
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-022-Q1-K1-G8

<400> 39443

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tgctggcctc aatgtgctgc gtatcatcaa tgagccaacc gctgctgcta ttgcctatgg 120
tcttgacaag aaggcaacca gtgtcgggtga gaagaatgtc ctcatTTTTG accttgaggg 180
tggtaccttc gatgtctccc tccttacaat tgaggaaggt atctttgaag tcaaggccac 240
agctggcgac acccatcttg gtggtgagga ctttgacaac aggatgggta accactttgt 300
ccaggagttc aagagaaaga acaagaagga tatcactggc aacccgaggg ctctccggcg 360
gctgaggacc tcttgtgaga gggccaagag aactctgtct tccactgccc agaccacat 420
tgagattgac tcgc 434

<210> 39444
 <211> 441
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-022-Q1-K1-H9

 <400> 39444

 aacggttctg actctatcca tgactgtctg tccgagaatt ggcagtttgc acttgctgaa 60
 ctaaacagtt ctcattacat ggcaatctgt atagaggatg actcaacaag ttcagattct 120
 agaaacggta gactgccact aggattgaaa gtatggaaga ccactccgtt cgtggaagat 180
 atacttgttt ctggaacgga agctgtaaaa cttgtcagtt gagtatgtga gaggatcaag 240
 tgattttcttc agatgacaat gtgatgcaac gaatgtattt ggacgaagta tgcgctgtgc 300
 agggagactg aacggttttc ttcgagcata ctgcatgcat tgatgaactg accactgaca 360
 ctgtgtgctt tagttaagat ttggaaatgc aacgacatac actttggagt cctgatattc 420
 gtattagcat atcacgacac t 441

<210> 39445
 <211> 94
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-023-Q1-K1-C12

 <400> 39445

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 tcatatctgt ggcatagggc acctaaattc aatt 94

<210> 39446
 <211> 66
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-023-Q1-K1-F7

 <400> 39446

 cccacgcgtc cgnntaaaaa aatttatctt tttaaaaaaa aaaaaaaaaa aaaggaggagga 60

gtttttt

66

<210> 39447
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-F4

<400> 39447

cccacgcgtc cgaagcgcgc catcggcggt taggttaaca agcagggtcaa tgggcgcatg 60
ggcaggaggc gtatccatgt ccgtgtggag catgtgcagc cgtcccgtg cacagaagag 120
ttccgcctga ggaaggcgaa gaatgaccag ctgaaggcgg atgccaaaaa gtgcggcgag 180
gttatcagca ccaagaggca gccattgggt cccaagcccg gcttcatggg cgagggcacg 240
accattgaga ccgttacttc catcccatat gatgtgggtca atgatctcaa ggggtggatac 300
taggttggtt ggtccatcta cctgcagtac ccaattctac atctgtgtta ctctagcgcg 360
tgcaactttg ctactctga gcagtagtat gaacctgggtg tgtgtt 406

<210> 39448
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-024-Q1-K1-H8

<400> 39448

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agctgcaatt taccgtgaaa atagaaatcc cttgccaaac tagccatcaa tgatgggaaa 120
acctgcgtgc tggatgatga aactttatat tagttctcat gaggaccttg taccgaccaa 180
ttgtgtggcc taatccagta agtcactctt gtaaaatcat actaactctt attgtaactg 240
gatttggttc cgaattaatt cttttt 266

<210> 39449
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-A1

<400> 39449

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tcggtttcgt ggggtgagcgg atcgagatgg ctgcgtcaga tgttgagtac cgctgcttcg 120
tcggcggcct cgcttggggc acggacgacc actccctgca caacgccttc agcacctacg 180
gcgaggtcct cgagtccaag atcatcctcg atcgggagac gcagatgtcc cgcggcttca 240
gcttcgtcac cttcttcacg gaggaggcga tgcggaacgc ca 282

<210> 39450

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-C2

<400> 39450

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gtcagagcaa tatcgggcaa tgattgaaga acgtgatgct tctgggggaa aatcaaaggg 120
acaaggaacc ggaaatgttc tcattgttac tcttgttgat gcggagacag aaagtagcat 180
aaatgctacc atgcttgagg aaggccttgc tcggcttgaa agaagcaaga gatgggacac 240
tagggagagg aagacggctc tccagaacct gtaacagttc caggagaagg caaagaagga 300
aaggctgcgg atttggcagt atggcgatgt tgaatcggat gaagacgagc agggccccagc 360
tgcaatgaag cctggagggtc gtcggtagag ctccccaaat gtgagactct gctgggagtt 420
atagattcaa ct 432

<210> 39451

<211> 314

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-D12

<400> 39451

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acaagcaacc cagacaatgg tagccccaca cacaaagccc atacaaggtc attgttgctg 120
agctcaacac aaaagacgag caactctgag ccaaaatgag caacacaagg tcaaatgagg 180

aaaccaacaa tgtctatacc caaaaaacgg cacagaagta tgaagaccac ggcgcggcgt 240
 cgttgccaaag cccaagaca cccacgcga ggcagctccg attcttcacc aataagactt 300
 ccaaacttga tact 314

<210> 39452
 <211> 406
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-025-Q1-K1-F3
 <400> 39452

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 ggccgtcttg cagggccggc gtgatggagc aggtgcgcca ggactggcac aagatctttg 120
 tgctcgacgt cgccgtgctc gccgctctcg tctgcatctg ctcatgcggg tgttgcgctt 180
 tcaggaacgc tcgccgtctc cgggtccagt acccatacgg ggtaaaccac acgtccaaga 240
 taaaccacg ctgggactac tgggtggcgt gatgggggtg tagaagagaa cagatctact 300
 aggctagctg tagcttctca atgcctggat gatattttga tccagtcttc tgtggaaaaa 360
 gataaaataa cacttgggat caaaaagaca tgaatttgtc caacat 406

<210> 39453
 <211> 415
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-025-Q1-K1-F4
 <400> 39453

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 gatgcatcaa tttgaccagg cgatgcagca ccttgaggga gaatatgaat tcatgacatc 120
 tgatcactca tatgtatcac ggaagcatga ggaggataag gtgatcatct ctgagagagg 180
 agatttggtc ttcgtgttca acttccactg gagcaatagc tattttgact atcgcgttgg 240
 ttgtttcaag cctgggaagt acaagattgt tttagattct gacgatggcc ttttcagtgg 300
 atttagatcg cttgatcatg actctgagta ctttactgct gactggccgc atgacaacag 360
 gccgggttct ttctcggctt atgcacccta cagaacagcc ctcttatatg cacct 415

<210> 39454
 <211> 282
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-025-Q1-K1-G10

 <400> 39454

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 tacacaacaa aaaacaggcc catttacata ctttaattaa ctatagatta atgctaatat 120
 tctgttttttc ctagtataga ctaacatgta atgaacaagc cctccaatga acaggcatac 180
 ataaataatg tgcaggttgc tctgttccac tggcagatgc attcctgcct gccttattga 240
 gaaccaagtt tgtacacggg agcattgcat aatcaaaata cc 282

<210> 39455
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-025-Q1-K1-G8

 <400> 39455

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 gacgccgcca acatccccgg caagtgcggc gtctccgctg gcgtgcccac cagccccacc 120
 gtcgactgca ccaagatcaa ctgatcgatg gaaccatagt ggaggtagct cgctcgttgg 180
 atggcagcgt acgtggccat cagcagcatg cagtcgctgt cgtagcagag atgtcctagc 240
 tacgtgtgtg tcatgcatca gactggcaca taataaagaa gtagatcatg caccactag 300
 tgatcacttc gtctagtggc ccttcgggtca atggcgctgt cgtcggcggg gaccttacgt 360
 gacatgctgt agcacgtacg ctage 385

<210> 39456
 <211> 264
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-025-Q1-K1-H10

 <400> 39456

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gaatatgtgt aagcttttgt tccctcgcca cggccacccc cctggtgcct cttgtttgtt 120
gcaaatgcag ccgtggggat ggatggatcc aagtatggag ccatttaagc ttcggttgcg 180
cagtaaaactt tataaatacg taatgtaaag gcttgctctg tgtggtttgt gctgcacaca 240
aaaaaaacaa caagaaactt actt 264

<210> 39457
<211> 104
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-H11

<400> 39457

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tcggtttcta tacatcttat gtctatacac taaaacagta taac 104

<210> 39458
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-025-Q1-K1-H2

<400> 39458

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cgtgtccctg gtgcgcctcg aggctgtgga gggcctcgaa gaggggcccc gcgggcgcgc 120
gctgctggtc ctgctggacg acctggccgt gcggtcgtcg cactcggcct tcttcggctc 180
gctccaggcg cgggggttcg atctcgaatt ccgcctcgcc gacgacccca agctctcgct 240
gcaccgctac ggccagtacc tctacgatgg cctcgtgctg ttgcgccctc tcacccacg 300
ttttggtgga tcagtggacc agaacgcagt ccttgaattt attgatgctg ggcttgatat 360
gatcctggcg gcagattcct ctggctctga tcttat 396

<210> 39459
<211> 438
<212> DNA
<213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-026-Q1-K1-G12

<400> 39459

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gccccggcgg ttctacggca gcggcctgcc gaggcgcgcg ttcttcccgg gcgaccgcgt  180
ggacccgcgg gcgtccgtca ccgaccgct gctcgagtgg gcgcgcgaag cgcactggtc  240
catgggcggc atcagcgtga agcgcctncc cctgcagggc cgcacgcagg gttccgctga  300
caagctccgc cgcgcgcgcg accgcgacgc caggggtcaag gccaaaggcca agggccgcgc  360
cgctggccac atgccggctt cgctcgccgc gcttgggtcc gacgacgacg ccttcagcgg  420
cgactccgag gacgagca                                     438
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<210> 39460
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-027-Q1-K1-B10

<400> 39460

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ttttttgttc gagtcagtca gacagtcagg cgcattgcat gggccatggc atagcatgcc   60
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ggaacgaata attgtaccga gatgttggcg ccgtgtcgtg tcgtgtcgtg tcctgtcctg  180
tcctttctgg ggctcatata gcagtcagac tgtgttgtgt tgtgctgtgt gggccgagtg  240
tgcagtacag catcaggcca tgccccctgt tccatctcat ctgtgtgcga cttttgtttg  300
tgctgtgtca tctatctatc taatccatct                                     330
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<210> 39461
 <211> 446
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-027-Q1-K1-B12

<400> 39461

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 gtgtggagca tcatcaccgc gcccatgttc cagagcatgc tgagccaccg cggcgacagc 180
 gggtgccagg gcgccttcta cacctacgac gccttcatcg aggccgccag caagttcccc 240
 ggcttcggca ccaccggcga cgagcagacg cgcaggcggg agctcgccgt cttcttcggc 300
 cagacgtgcc acgaaaccac cgggtgatgg gcgactgctc cggatggacc cgttgccctg 360
 ggatactgcc gggatgaagga acagaaacag acggaccac cctactatgg acgaggacc 420
 atacagctaa ctcataagta caacta 446

<210> 39462
 <211> 397
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-028-Q1-K1-A12
 <400> 39462

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 gacacacgcc ccatcaacga ggcaacaatg tatgcggatg aaggagacga ggtaagtgtc 180
 cttcaccaag tatttagatg gaatttggtg gttgatccta ccacataatc cttgatgtta 240
 attttttgtg ctgtcatggt gtgttcccag agtatgggtc cagtgtttta gcttgaataa 300
 gagctagttt ggaaactcaa ataatttccc tatcaatccc ctttaatccc agagaggatt 360
 tgagttttca aactagccct aagagcttgt ttggggag 397

<210> 39463
 <211> 395
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-028-Q1-K1-A2
 <400> 39463

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 tctggactag tatatattac atcgactagg tacacatgct tctctaaaca tacagttgaa 120

ccaactactt ctcgacaaca aatgacagac acatcaggat gtaattaagg gattatacat 180
ggcattagga aatctatgac ctatcgctat atatgacggc acaaatgttt tgactaaatt 240
gccacctaaa atgttgaaac tagtacttta caggagacag ttgtgacgaa agttaccagt 300
gctagctaca ccgaagagta cctcttcatg gtatcgatgg ctcaactgct ctgaagcatt 360
catggacgca gtctccagtc agaaatatgt gagct 395

<210> 39464

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-A3

<400> 39464

tttcgcacac ctcgacgcct ctctctcttt cccctagctc tcgaaaccct aggtgctgctc 60
cgaccggcgg cggcggcgag gtgatggcga tggacccgga cgcggtggcg aaagccttcg 120
tggagcacta ctaccggacg ttcgacacca accgcgcggc gctggtgggg ctgtatcagg 180
agacctccat gctcaccttc gagggccaga agttccaggg cccatccgcc attgccggca 240
agctcggatc tcttcccttc caggcctgcg agcaccagat cgtcaccgtc gactgccagc 300
cgtcgggggc ccaggaggcg atgctcgtct tcgtctccgg ttccatccgc accggccccg 360
aggagcacc ccatcaagttc tctcaggcat tccatttget gccggcagct gggtccttct 420
tcgtgcagaa tgacatgttc cgcctgaact a 451

<210> 39465

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-C12

<400> 39465

aaagagattc gatgaagcta ttgcgcagtt tagtattgtt ttgacagaag atgaaagtag 60
tgtgaaagcg ctgttcaggc gaggaaaagc taaatctgaa cttggccaga cagaatcagc 120
gaggggaagat ttcctcaaag cgaagaagta ctccccagaa gacaaggaga tcattcggga 180
gctccgtttg ctgcggaac aagacaaggc actataccag aagcagaagg agctctacaa 240

agggtctcttt gggccaagtc ctgaagcgaa accgaagaag gcaaagtacc tcgttgtgtt 300
 ttggcagtgc ctgggtgtcat ttatccttta tctggctggg atgttcaaac ggaagaacga 360
 gtaggataat ttaccagaaa attgtgtaga actgggtggcc taattgacca accttgtatt 420
 ataaggagtg ttgaattttc t 441

<210> 39466
 <211> 361
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-028-Q1-K1-C5
 <400> 39466

ccagagccaa agcctgagcc taaacttgtt ctcaagacca gaaccagaac caaagccgga 60
 gcctaaacct gaaccaaacc cgaaaccaga accggagcca caaccaaagc cagagcctaa 120
 gcctgatcca aaaccagagc ctaaaccgga accaaaacca gagccccaac caaaaccaga 180
 acctaagccc gaaccaaacc cacagccaga acctaagccc gagccccaac caaagcctga 240
 ccctccacac atcccaccag cagctatcaa ctgaggaagt ggctattaac aattattgta 300
 gtgttttaaat aaaatgccat gttgcagcgt gctttttagt gtgctgctac ttgttgtatc 360
 t 361

<210> 39467
 <211> 234
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-028-Q1-K1-G8
 <400> 39467

aaaaaaaa aaataataa aaaaaataat ttaaaaaaaaa aaaaaaaaa aaaaaggag 60
 ggatttttaa aaaacacagt ctgcctacaa aacaataact atttacatac tatectaata 120
 aacaccttct acataccttc actttcaaca cctacctgtc tcaagtttat ggcctcttc 180
 ttttaatctt cgtccctcca catttcctg tcgtaaccct gcaacttata caca 234

<210> 39468
 <211> 272
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H2

<400> 39468

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cccacgcgtc cgatgattac gagcaagtgt gagaagcagc tggctggcct gaaggcaagg   60
agggcgtttg gagtcgtcac actcaggagc aaggcgatgc gtatgtacat atatcttaat  120
aagcagcttt aggatagctt ggtttgctcg accgacatgt tgcaagttta tgcgcctttt  180
tctttattct ccgccctcc agttttgccc gttgtagtat ggaacttata acatgcgtgt  240
tttatgccgc atcttacaaa atatttttgt cc                                272

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<210> 39469

<211> 234

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-028-Q1-K1-H9

<400> 39469

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cccacgcgtc cgcggaacgc tggggttcct taagtttccct cccggcaagg aggagaacag   60
ggcgataaaa tatgagggcg agagaccaag tgtaccctt tctctgcat ccactcttac  120
gtagtgtctg ttgcatcttg catggaccgt cattacctcc tgtttcttga cagtgtttgt  180
cacctctcac cggccagggc tcccactaat agaaataaaa cttttgttct aagc       234

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<210> 39470

<211> 423

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-B9

<400> 39470

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gcttctgggg ggcacatcat cttcttccat tgctgagtc ttcttggcta ttgcctattg   60
ccattggatg ttggtgctct agtttgcatt ctgaaggaca atgtcatact taagattgtc  120
gtggtgacaa tcacattggc ttggagctcc tgggctgcgt atccattcat gagcgctgct  180
gttaacccaa ggagaaaagc tctggcccta tatcctgtct tctcatgta tatctcagtt  240
ggtttcctca taattgccat tgattaacgg gggttgagctt tgtagtaaca tctgaagagt  300

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tgagagtttc cttggatggg tgaaccacca gaatacatat aagtttgagt agacaatgct 360
tctatccttg taccctcgtg gagtctttgt gaattgcctc gtaagaattt ttgtttttac 420
atg 423

<210> 39471
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-C1

<400> 39471

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gtaacaagga tggcaagccc tacattcagg tcaagatcaa ggatggggag aacaaggtct 120
tcagccctga ggagatcagt gccatgatc ttggcaagat gaaggatact gctgaggcat 180
accttggcaa gaagatcaat gatgctgtcg tcaactgtccc tgcgtacttc aatgatgcgc 240
agaggcaggc aaccaaggat gctgggtgtca ttgctggcct caatgttgct aggatcatca 300
atgagcgcaa ctgctgctgc tattgcctat gggttggaca aga 343

<210> 39472
<211> 177
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-D5

<400> 39472

ccttcttctt cttttgtgcc ctggttactg tcttgctggg aaatgataga taggtggaag 60
tggtaccctc cgatttgtct tactttacta cctgtgtaat tagctatccc ggtcttgctg 120
acaggcactg ggccaaacgg tgtacctaata gctgtgctcc tgctctcaaa gacctgc 177

<210> 39473
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-E3

<400> 39473

caaggctgaa caaacgcgca tgccaggatg ttgctgtttt gggcctgggg tttctcaaag 60
 ttgatgctcg tgcacggaag gatactcaaa agattgacca cacagtgaag gagagagcag 120
 cacttcttaa ccattttgcc agagcattta aggagcgagc tcagtcagac ttgaagaaaag 180
 ctgcagacaa acattggagt gatggcgcct tggaggcaga cctgcgacga gctgacttgg 240
 ttgttaaacy acgtgccatg gaagacgctt tcatggcatt gaagtttgtt caggatatcc 300
 atgacatgat ggtgaacaaa atatatgagc agctttcgaa agacgggtca tcttctcgta 360
 caaattcaac agg 373

<210> 39474
 <211> 203
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-F7

<400> 39474

gacaaatata atggcaccta tatttgtctg aagtcccaaa gctctcaatc tattatgccg 60
 acaaggctag ctgcatatgc gtcattagcc acttacactt aaattattcg tgactaagaa 120
 ttcaggaatc tttttcttga ttaaaaaaaaa aacaataaaa agaaaaaaaa aaacaacaaa 180
 aaaaaaaaaac gactgcaaat tag 203

<210> 39475
 <211> 133
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-029-Q1-K1-H3

<400> 39475

acaacacgta cgaccactct tgaggcactt tatttccaga gacagcaggt ctgccactcg 60
 aggggatcta aggtgacctt cgcgggcttc caacaccatc gatctacaat aggggcacct 120
 aaatttaatt cat 133

<210> 39476
 <211> 411
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-030-Q1-K1-D11

<400> 39476

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 gaagaagtat tacctgaggt tactgctcca ggtgttggtt atgagcagac tgctgcctct 120
 gtagagttga actcggataa gctctcacag ccatctgatg tcaacaattc tgatgcccta 180
 gcagctagca gtgaacgttc acctcttgaa tcccaaagcc ggcaagtgag gagctgtacc 240
 aaggtaatta tgcaaggaat ggcagtagga agggctgtag acctgacaaa gcttagtggc 300
 tacagcgcgc tttgccagaa gctggaggag atgtttgaca tcccagggga gctgggttcc 360
 aactaaaaga aatggcgggt cattttcact gatgatgang atgacatgat g 411

<210> 39477
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-E12

<400> 39477

ttttctggct tgtctgtgat tctttagtag ttcagcactt gtatggttct atgttgggcc 60
 attagttttt ttttaactct ctttctctga ctgccccgat ttgccgtata gaattacatt 120
 tctaagcgca actagccaac ctgtagcatt ttctgtcacc agcatttgaa gttttgaact 180
 gagccctggt cgtgtccctg aggtttgatg tgctcttggt gtactactcg tatttgctaa 240
 ttagaaaagg accttttgtg ggtttgctag cgtttggcac taacgcccac gctagaactt 300

<210> 39478
 <211> 225
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-030-Q1-K1-F10

<400> 39478

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 cataatacaa aatgaaatgc agttctgtca cgacaacatc gcattcataa gcaataccac 120
 ccatctagta cctagcaagc atcaccacac gaaccttaaa ctgacgagta ctaacagcga 180

tacaaggaat atcatatctg taccaagcac tgcggagaat gactt 225

<210> 39479
<211> 447
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-031-Q1-K1-A11

<400> 39479

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ggagatatgc tcctttgcta tggccctttg cattccaggc acccaagaac atncccgtagc 120
aagccctaata taaaggggtca cagttcccaa gcaaatgcct tagctcagca aactctgatt 180
gcacattggc agagcattgt gaaaatattg acaaattact tgaatgtttt aaaagcaaata 240
tatgtccctt cagtcttaata cagcaaagtg ttcactcaaa tcttttcatt tattaatgtt 300
cagttattta atagtcttct tcttcgacgg gagtgctggt catttagcaa cggagaatat 360
gtgaaagctg gattggcaga attagagcag tggcgcatth atgcaacaga agagtatgca 420
agttcttcct gggaagaatt aaaacat 447

<210> 39480
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A3

<400> 39480

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caggaacaaa gaagcaaaaag tatgagaaaa ttagcgagaa gaaagttgca acatcaattg 120
aggctctatg ccgtgggtat cctactgagt ttgcatcata tttccattat tgccgttcac 180
tgcgatttga tgacaagcct gactattcct atctcaagcg attattccgt gaccttttta 240
tccgcgaagg ttttcagttt gattatgtct ttgactggac aatat 285

<210> 39481
<211> 206
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-A9

<400> 39481

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cccacgcgtc cgccccacgcg tccgcccact cgttctccca cgcgtccgct tgcagttatg   60
gaaccttgtt atattgtatc ctgcaatttg ttttttgcaa cttataagag taattttatt   120
tgatgagtct taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa   180
aaaaaaaaaa aaaaaaaaaa taaaaaa                                     206

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<210> 39482

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B6

<400> 39482

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catgatcttg cggcctgaat ttcagctgac gcactgcaaa acgtgtggaa gtgacttgtc   60
at ttgtagtg ccaggacgaa caatatgcct ggactgaatt ttcaggcgtg gaaatgtagc   120
tgtaggtcga attggtgtac agaatggacg aggtacatat cataaatgtt atgtaaattt   180
agtgggggca ggggtgatag tggttaagaa atcctgtaaa gatggaatac attttatacg   240
tgtaaaatac gagtatttaa gggccacgct gtaaaaatag atttacctgt aaaagataat   300
gaacatatgg tcctactttt acca                                     324

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<210> 39483

<211> 201

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-031-Q1-K1-B7

<400> 39483

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aacggacaat ggtgcatgct aaggatgctc catcaaccga accactgcta ggaaggaagc   60
atccgtagcg ctaggattac gattagccct gtatctttga tattgctcct gataatcatt   120
accaatgtga aatggattat attttgaaaa taccatcttg atgatgaatg acaaccaaaa   180
atgattgaga acaggcgtgg a                                     201

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<210> 39484
 <211> 257
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-D10

 <400> 39484

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 ttggcagaaa ccaggaccac cagcccgaa cctgctgga caaatcatg ccgccagaag 120
 ttgtaggag aagcttggtg aagtccatga gataggaatt tggtagatc acatagcaga 180
 ttgccagaaa agtgccttat gaaatattgg tagaagcact ggggtgggttc gggatattgg 240
 ctccgcggcc acaaatg 257

<210> 39485
 <211> 294
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-D8

 <400> 39485

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 gtggaccgag agggctcggtc caggacatca ctgcagatcg gacaccgag cgtcttcaca 120
 gcgtcaccga tcgtgctggc gctgccgtcg actacatcga gttcacctat actgacagcg 180
 ctgggcagag gcgcgcgcgt gggcggtgcc gtggacttgg cggcaatggt cgaacgatcg 240
 accttggaac cgccgatgat gtcagggaag tctcggcaac atacggtgca ttg 294

<210> 39486
 <211> 64
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-E4

 <400> 39486

 gtctgtttt tcttttaggg ttcgctgcag atttaaggta cacattactt gatctacaga 60
 aaaa 64

<210> 39487
 <211> 289
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-031-Q1-K1-E7

 <400> 39487

 cacggagaag cgaaaccgac ctttccccct cccccgcatt ccacctcgcg gagatccagg 60
 ccagccctag ggttttcgcca gcggcgagcc aaactccacg agcgggggaa gaggggaaag 120
 cagggacgac gagggggcag ccatggggca acagtcgctg atctacgctg tcgtggccccg 180
 tggcacggtc atactggccg agtacacgga gtccaccggc aacttcaaca ccatcggtt 240
 ccagtggctc atgaagcttc ccggcagcaa caacaagttc acctacaac 289

<210> 39488
 <211> 77
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-031-Q1-K1-G11

 <400> 39488

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 cagacgagga cggaagg 77

<210> 39489
 <211> 456
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-032-Q1-K1-E6

 <400> 39489

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 gtctatgcga agggatggac gagtatggtt cgtacgctgg agaattgact ctgcaagccg 120
 attgatcaag tgcagtctac atgcgtttgg gcgactcctg atctagctcg cggacatgca 180
 gatcggcaaa gtggcttcag gtccccagat aatggcgctg gcanagtgac aagtcgccgt 240

<212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-A1

<400> 39492

aaaccccccc aaaaaaaatc gggggaaaaa aaaaaaggcg tttgttggtta cactgggcaa 60
 aaacccgag ctttattctt caccatgtag gggttaacct ggcccgggtta aaggcttttt 120
 ttttaaatag ggaaattact ttggccaagc ttcccccaag tttggggcctt tgtcgtcaat 180
 gggaaa 186

<210> 39493
 <211> 115
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-B4

<400> 39493

cccacgcgtc cgcccacgcg tcctaaaaaa aataaaaaaa aaaaaaaaaa aaaggaaagg 60
 taaaattaaa aaaaaataa aaataaaaaa aatttttaat ttaaaaaaat atata 115

<210> 39494
 <211> 439
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C5

<400> 39494

tacaggtggt ttttgttgga gggcgactc agccaggcac tgtaaaacct gaagaaggag 60
 accgtcacc cttattcgggtg ttagattgtg cgtcacagcg tgaagcaatt ttgcctttcg 120
 tactctatat ccagaaaaca ttgcgagga ggcctttctt aataaagaat cttgaaaatg 180
 ttatgcgtaa attcctgcaa tccttgaggt tctttgagga aaatgagagg aagaaactcg 240
 ccatattcac agcccttgca ttttctcaga agctatcagg gcttcctcct gagactgtgt 300
 tccagccatt gctcaaggat aatcttggtg ccaaagggat agtactttca ttcattactg 360
 agtttttcaa ggagtacctt gaggaaaaca gcttgatga tttgatggca cttttgaaga 420
 aagggcaaat ggaggacaa 439

<210> 39495
<211> 289
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-C7

<400> 39495

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gcgctggact gcagcgacca ccaccagcag cagcagcagc aggagcggat cgtcctcgcg 120
gcgacgccgt cgtcgtgctc gctggccaga tcgtgctccc tggaccggcg cgtcgagttc 180
ggcgtcaaga acaggagctc gtggctgccc ctccgcggct gcgaagccac ggcgccggcg 240
ccggccgacc cgtgggagat agagccgtcg tcggaggact acacgtgcg 289

<210> 39496
<211> 310
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F12

<400> 39496

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cagcgctca caacggtgga agttatggtg ctgcaccata ctcgtcgagc tatggatact 120
aatccggagc aagagcttgc ctcagactta gggaaggagg gttatcgta tggttttgtt 180
tgctagtcta ttcatctgtt gagaactcaa gattgttatt gttaggacgt gtgaactttg 240
gtgttctagg ctgctttcag acgccagtgt cgatatactc tctttgcttt attgttgcg 300
aatattatcgt 310

<210> 39497
<211> 138
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-F8

<400> 39497

cccacgcgtc cgaaaaaaaa aaaaaaata aaaaaaaaaa aaaaaaaaaa aaaaaggagg 60

gacatttctaa aaaactccaa acttacatac gcctcatgct acatcatacc tcttctatag 120
agacacctaa attcaatt 138

<210> 39498
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-034-Q1-K1-H7

<400> 39498

cccacgcgtc cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggaaaata taaaaaataa 60
aaaaaatata aaataaaa 78

<210> 39499
<211> 208
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-035-Q1-K1-B11

<400> 39499

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tacggatctg gaaaaccctt gacggtagcc gacttaattct ctttagcaaca cattcacctt 120
taagcacctg gcgtctgacg taaaagccca tgaccgagcg cactttccag cagttgcaca 180
ccctgatggg cgaatggaac gccctctg 208

<210> 39500
<211> 176
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-035-Q1-K1-D6

<400> 39500

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gcgagggagg gggctcatct tgggggagtc aacannacct tgaggggatg annggtttgt 120
ggccnnngtg ggttctcaag ggcnccagc ntttggtcga ccccttgngg tgaagc 176

<210> 39501
 <211> 126
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-035-Q1-K1-G8

 <400> 39501

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 tagctatttt ttttaagcgca aaacatgtct tctcttttggg gctataaaaa gcctatagtt 120
 tcaccc 126

<210> 39502
 <211> 335
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3069-036-Q1-K1-D11

 <400> 39502

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 tgcaaaaatc ccaaaagctc cttgcaggca cacttatttg cattctttgc gctgacatgc 120
 agttaggatg cgatagggcc tccctccaat gcaaaatcac attaaccatg tcaccgctgt 180
 caattgtttt tttgagtttg ttcccaaaac ctcttaatta ttattgccca cggatagtca 240
 tgttatctac ataatccgtt tttgccactc ttcagggttc tgcattgtga atagaggttc 300
 atctttgtga ttagattgcc accgncgctg ctttt 335

<210> 39503
 <211> 292
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-036-Q1-K1-D2

 <400> 39503

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 gcgaaagctt tagtaagata caaacataca aacgcgtgca tgcaaagaca tagaaagtat 120
 gatagagtta cctaaatgta gttttctaag gccagcttaa gaacgtcact aactgggaga 180

atccccgcggt tgcgcaacgt aatggccttg ctggacatca gcctttacac agatggcggtg 240
 atatctaaga tgcccagtag gatcgctctt gtcaccgatg gcgaaaccta ta 292

<210> 39504
 <211> 438
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-036-Q1-K1-E8

<400> 39504

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 ggacaaagtg caaatcaaga gtaaaggat gtttctaagc cttagtacat tggttttatg 120
 tactaatata cttgtctaag tgttagaaac agaaagaaga agaaaagaaa agagatgaaa 180
 aaaggcttgg ctgggtacag ccaagactca gctcggctctg gcacaccgga ctgtccgggtg 240
 gtgcaccgga cagtgtccgg tgcgccaggc tgactcggcg cgaagtggcc gctctcggga 300
 attcgtcgac agcgtacgac taanattcac eggactgtcc ggtgtacacc ggactgtccg 360
 gtgagccaac ggtcgtgaaa agaaatgtgc ctttgggcca tttctaagta ttttgtgatt 420
 gagtgccaac acaagtgc 438

<210> 39505
 <211> 60
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F10

<400> 39505

cccacgcgtc ctcccacgcg tcttctctct cgtcgccca cgcgtccggt tctagatcgc 60

<210> 39506
 <211> 350
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F3

<400> 39506

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 cggcttcaat agatggatgc agaacaatta tgacgaacgg attcatgtga tgggcaatct 120
 aatcgggtgag gcacggaatc aacatcagga tcactagcac aaaacattca ctccagaaca 180
 aatgggggtg agcatgggtc tcagcaactg caaacctgt atcgcgtcga ctctctagat 240
 ggctaccaga tgcattgacag tgaacattct cttgaaaaac tgcctaagta tcgacaacga 300
 tacagcatgc cgctgcaatc ttatgtgata tgagaagaaa cattgaatcg 350

<210> 39507

<211> 71

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-F9

<400> 39507

gccacgcata ctggaattga cacttgattt gacaaaaaaaa aaaaaaaaaa aaaaaaaaaag 60

gaaaaataaa a 71

<210> 39508

<211> 299

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-G11

<400> 39508

atcggcgcgc atgagggggcg gcggcggcgc cgggatgatg gacgatgaag agaggggtggg 60

ccatgcggag atccccacca gtttcgggtc cgagctgcgc gcctgcctcc gatgcgcct 120

cgtcaagacc tacgaccagt tcagggagaa cggctgcgaa aactgcccggt ttctagagat 180

ggacagagag cacgacaacg tcgtcaactg caccaccccc aacttcactg gaattatctc 240

tctgatggac cccagtagga gctgggcagc ccgttggttg agaattggca ggttcattc 299

<210> 39509

<211> 335

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-036-Q1-K1-H10

<400> 39509

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tcgcacaccc atcacatggc cgctcctcc ccttccacct cctcccctaa tggcagatgc 120
taggcggcgg cgccccctctt gagaagtga agggaaagat ttgttttgcc gccgcgccc 180
tgctcaggcg ctcggcctcg gtcggggccac acaaggtagc gccttcgcgc tcgttgcttg 240
acccattcct gtttcgttcg aagcactgaa gcagccccag accgacgcca ggcgcccagg 300
ccagtggctg acgcctgtgg tgagctgata ggcca 335

<210> 39510

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-C7

<400> 39510

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tccgtactta ttaggatctg ggctgaaga taccggtaca actgcaacag ctgtgatggc 120
ttggagctga gtcattggga aaacggccac agcgatgttt atagaatggc actgccctga 180
tagtaattta tcgtgttcaa tgtatgtctc catagtcttg caccactg ccaactcatt 240
agttctttat tcttgagaa cagtttttgt cagagtgtta tactgtcatg atatgatcca 300
ttctttgtag acacagagat tacaacacaa aataag 336

<210> 39511

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-D5

<400> 39511

gaaaccccca tggaaacctt aactccaaag ctccattaca aaaacggctt ggaaattgga 60
attctactac cgtttttagg ctgttttaaa ataccgaag attcccaaaa aaaaaacca 120
aaaaaacccc aattggatct ttactccctt tactgaactg ggtctccttt tccttgcta 180
ctacagtact actagtggga tccgtccatt tgacaagaca acaccgggc ccaaacggaa 240

<210> 39512
<211> 269
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-037-Q1-K1-H3

<400> 39512

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acggcttctc attggtgcag cttatgcgct ggttgctgct atccagcaac cagtccttac 120
atagatgctc aaaattcgct cttggcacat gcttctgtag cagctcgaga ccttacgaga 180
gatcaagctg tttataatgg ttaggccgtg atcatcctgc acatcatgtg ctactagtct 240
ctaacatact taccaggtga ccaatcagc 269

<210> 39513
<211> 177
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-C2

<400> 39513

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gtgttgtaaa cagtgcctg gatgcttaac cggttgtcaa gtgaagaagg ctcaaactac 120
cggaagaatg attgagatgg ttgaacacag aatcttacct tctcagttgg atagact 177

<210> 39514
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-038-Q1-K1-E5

<400> 39514

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tatcccaatc aaaaacacgt gacttctcta tagccctata cagctgcttc cacctccagc 120
agttctgact tcagaacaag cccagccatg ctagaacttc agccacagct ggacgatggc 180

gtgccaaacca atagtttagcc catgatgtca gctacacatt tctgatcagt gagaattcgt 240
catcgtgtac cttgctatgt gtttcttaat ttctgtctat gtacactgga atcacacca 300
gggatctgtt aggatgatga ttagtgtgac tttgatgctg acaagggggc tggaggccct 360
ggttgacaca ggcagtcagg aaaa 384

<210> 39515
<211> 381
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-038-Q1-K1-F4
<400> 39515

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gctgatcat ttccccctcc agggactgaa agacagtggc attgggtccc aggggataac 120
aaacagcatt aacatgatga ccaaggtgaa gagcactgtc ataaacctgc cgtcaccatc 180
ctacaccatg ggctgagata ttcttgtaa gtgttctata gctccatgag catgtagaga 240
gttaaagtgt tcatagccac gtgagatttg gacgctatct acacctcagt tcttctctgca 300
gaagatcttt tgcagtttaa agaataaagt gcgttgaaag taaaaaaaaat aaatatttta 360
aaaatgtttt tgaaataata a 381

<210> 39516
<211> 92
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-038-Q1-K1-F6
<400> 39516

aaataaaaaa aaaaaattaa tttaaaaaaa taataaaaaa aaaaaaaca aagaaaaaaa 60
aggaaaaaat tttaaaaaaa cacaagaata ca 92

<210> 39517
<211> 305
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-039-Q1-K1-A7

cccacgcgtc cgcccacgcg tccgcccacg cgtccgggcg tggatcgcgt ttcgcgtct 59

<210> 39521

<211> 452

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-040-Q1-K1-A7

<400> 39521

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aggctcaatg cgcccaagca ttggatgctc gacaagcttg gcggagcttt tgctcccaag 180

ccatcttctg gacctcacia gtccaggag tgccttctc tgatcctcat catcaggaac 240

aggctcaagt atgctctgaa ctaccgtgag gtcatttcta tcctgatgca acgcatgta 300

cttggtgatg gcaaggctcag gactgacaag acctacctg ctgggttcat ggatgtcatt 360

tccatcccta agacaatgga gaactacagg ctgctttatg acaccaaggg gccgttnoqt 420

cttcacccaa tcagggatga agatgccaag tt 452

<210> 39522

<211> 222

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-D4

<400> 39522

ggccggatga cagccgtgg gatggaggca cgttcaagct gactctgcag ttacagaag 60

attaccccaa cagacctgca actgttcggg ttgtttcgag gatgtttcat ccaaactct 120

atgcggatgg aagcatctgt ttggacatcc taaaaacca gtggagccct atatatgatg 180

ttgcggcaat attgaccctc tattcagtc ctgctgtgtg ac 222

<210> 39523

<211> 427

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-040-Q1-K1-E5

<400> 39523

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gcagcaagct ccattggaaa tgccaacaag atgacgtacg agaggctttc agggagtaat 120
tgagaataag aacgttttca tgtgttcctg cgagtgttct cgtcgttttt ctttctcttt 180
ttcttgtttt tgcaatgtga tcaatcatgc gactagtgtt tcttttcttt ttatcagtgg 240
ccaacaagtg tatgacggaa atttgattca tactgcactt ggcattgtaa tccttgctct 300
tattaatgct gntcttggat tgtgtcaaaa aaaaaacaaa aaaaaaaaaa aaaaaaaac 360
taaaaaaaaa acaaaattaa ataaataaca atctcaaaac aaatttttaa aaaaaaaaaa 420
gggcgggc 427

<210> 39524

<211> 208

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-G1

<400> 39524

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gaacacatat tagcatactg atgatgcgaa actctccagt ttccacgcct tgatgaaatt 120
gtacatctct caagaccaga tatagatatg gttcctgtcg gaggtagcaa gagctcctag 180
tccgcaccat gcacttgcca agacgggt 208

<210> 39525

<211> 346

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-040-Q1-K1-H12

<400> 39525

gtttcagagg ggcttaaatt gccacttagt ggatcatttc aacgcttatt catgatctct 60
gtacttgggt gaagaaatat tgattatcag agatgctgct ggagcacctg acgtcttaac 120
cagacttgag gggccgcaac cgaatccagg tgacggcaca gcagatgcag tgatatcgga 180

atatgaaagc taatgcctca gtgctgactg tagctccgca cctagctcct gtttatggct 240
cctttctcct ctttggcat tttctcagtc tcgcgcgtat ataaagcttt ctagtcttag 300
tgttgtcaaa aaaaaaaaaa cttacagaag caaagcgtag cataat 346

<210> 39526
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-041-Q1-K1-A10

<400> 39526

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tgatccatca ctgggtaaag tagattcatt ccacaaggaa aaggacatga tcaagatcga 120
agaaaggctt ccttctggag ctcggttat aatccaatct gcaccttgt gtgaagatag 180
tgatggcagc aatgaatcac tgtaaagggc tgtgttacat atgttnttct tctttttatt 240
tcattttact gagaatgaca tttgttgaa tttggtgctt gagtgtggca tagctcttgg 300
agtaggttca aaggatttga ttttgtaaac tgtgaatgtg atagtcaaca ttttctcaca 360
ccttgaagaa gagaatactg tatcttgctt taaaaaacat acaaaa 406

<210> 39527
<211> 260
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-B8

<400> 39527

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cgaatcattt catctgctgc ttgggctcta acaatcatga actgatcagc aattactcac 120
taaaataact caatcacttc taacatacct atgacacaga cattgtcttc atcaattacc 180
gctgaaatca cgtatgaatg taccatgtat ttacatacaa agttagtagt tttatTTTTT 240
aataatttag ataatttttt 260

<210> 39528
<211> 202

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-041-Q1-K1-C5

 <400> 39528

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 tatggactga ggataaatgc tgattctaaa atatgtaggt gcatttcagc gtagtgtact 120
 atacgaacga attaggaact agctgaaggc tttacgtgta ctcttatagt cttatttcta 180
 gtagggcagg agttggtgac tt 202

<210> 39529
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-041-Q1-K1-D1

 <400> 39529

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 cgtgggtgag cggatcgaga tggcggcgtc ggatggtgag taccgctgct tcgtcggcgg 120
 cctcgcttgg gccacggacg accactccct ccacaacgcc ttcagcacct acggcgaggt 180
 cctcgagtcc aagatcatcc tcgatcgga gacgcagaag tcccgcggt tcggcttcgt 240
 caccttctcc acggacgaag cgatcgga cgccatccag ggcattgaac gcaaggagct 300
 ggacggccgc aacatcaccg tcaacga 327

<210> 39530
 <211> 322
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-041-Q1-K1-D5

 <400> 39530

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 ggtggcgatc gatcgatctg tggatgatgag tgtccctatc tgtgtgtttg tgtttagttc 120
 cagtcgtctg tgaggaagtc agttatgttt gagtgaagg ggtacttcgc tcttcgggtga 180
 aactgtact tgtcatgagg agagttttca taccggaggt gtacgaactc tgtactgtac 240

tcggatcctt cctttttcat cgaagtgggt tttattttat caaccgtatc tataactcgtg 300
gttttgctat taaaaaaaaat aa 322

<210> 39531
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-F9

<400> 39531

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caaccgacca tggctacccg catccagttt gagaacaact gtgaaattgg cgtgttctcc 180
aagctgacaa atgcttactg tctggatcg aatggatggc cagagaactt ctacagtgcc 240
tttgacgctg atctcgcata tgccaatcct gtggtcaaga cctccattgg tggcactaga 300
ataaactgcc gactttgtgt tggaacaag aatggacttc tattgccaca tactacaacc 360
gaccaagagc ttcaacatct 380

<210> 39532
<211> 200
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-041-Q1-K1-G4

<400> 39532

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gcacaatggc gagctatata gcgctgttac tgcccctgct actgctggcc ttgccggtgg 120
ccacgcgcct ggcgtacgcc atctgctcat tcgagaagat cccggcgatg cgtgcgtaca 180
cttcatacag aggacctgcc 200

<210> 39533
<211> 373
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-A6

<400> 39533

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ctcgccctgg cggcaaccac agccgcggcc aactccggct tcgcggactc caaccgatc 120

cgtcccgtca ccgaccgcgc ggctccgcgc ctcgagtcca ccatcttcgc cgctgtcggc 180

cgcacccgcg acgcgcttcg cttcgcacgc ttcgccatca ggtatggcaa gagttacaag 240

agcgcggcgg aggtccagaa gcggttcagg atcttctccg agagcctcca gctcgtccgc 300

tctaccaacc ggaaggcct ctactaccgc ctcggcatca accgcttcgc ggacatgagc 360

tgggaggagt tcc 373

<210> 39534

<211> 372

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-C3

<400> 39534

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cgacagcgag aacgtccaaa cgagcgcgat tctccggcga taaccaagag cgcgggcacg 120

caaagcggcg aagcgggaag gaagcagtaa cgatggggct tgactattac aagatcctag 180

gcgtcgacaa gggcgccacc gatgacgacc tcaagaaggc ctaccgcaag ctcgccatga 240

aatggcaccc cgacaagaac cccaacaaca agaaggaggc cgagaacaag ttcaagcaga 300

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<210> 39535

<211> 370

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-042-Q1-K1-G3

<400> 39535

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atgcacgaac tcggtggcgt gagtactgtt cacagataaa agatttacag tgctacttgg 180
atgtagcatc aaacacatat ggctctacac cgtacgagtt atttgatgac gtgatcaacg 240
tacttggccg acagtctcaa gaagaccaga tccacattta agaaacgggtg taatctggag 300
agattactat gacaacttta tgggccttag acgaattcca aactgctact ctggacgatg 360
atgctcttaa 370

<210> 39536
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-A5

<400> 39536
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gacctaccg cagcaggctg gcaccgtccg taagaacggc ttcacgtca tcaagaaccg 180
tccctgcaag gttgtggagg tttctacctc caagactggg aagcatggcc acgcaaagt 240
ccactttgtg cgcatagaca tattcaatgg gaaaaagctt gaagatattg ttccttcac 300
acacaactgt gacattccgc atgtgaaccg tactgagtat cagctgattg atatttctga 360
ggatggat 368

<210> 39537
<211> 432
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-043-Q1-K1-B5

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caggtacagt gaaaagttca caacggaagt ggagggcaaa ttcactgcac catgggatca 180
gggttcccg cagcaagaat atcaagcaac gagttctggg gctccagctc gtcgtgccac 240

aggggtagct tgtcgccagg gtagaagttc ctattcacgc catccgcatt tattgtaact 300
 gtacggacaa ctctccgct agcaccatca cgggccatag caagggaaac taccttcacc 360
 acaaatttct ctgcctcttn ctggctcatt cctcttttcc attcatgatc aagaagtgca 420
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<210> 39538

<211> 85

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-B6

<400> 39538

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aaaaaaaaa aaaaaaaaaa aaaaaa 85

<210> 39539

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-043-Q1-K1-H9

<400> 39539

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tattcctgcg attagcaatt atgctggggc gttcttcacg ctgctttttg cttccatctt 120

cgccactggt attttggagc ttcgatggag tgggtgttggc attgaggatt ggtggagaaa 180

tgagcagttt tgggtcattg gtggcacctc tgcacatctc tttgctgtgt tccaaggtct 240

cttaaaagtg ctagcagga tgcacacaaa cttcacggtc acatcaaagg caaccgatga 300

tgatggtgat tttgctgagc tgtatgtgtt caagtggaca actcttctga tccccccc 358

<210> 39540

<211> 69

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-F1

<400> 39540

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gggcaggct 69

<210> 39541
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-G8

<400> 39541

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gcaccagcta ctacctgctt gtcacccctt tgtggaagaa gagctctata agttgtcact 180
gagtattcct ggaatgcaga acttatgggc tgtgacgaga tcatgtacat attatttgga 240
aatgactttt ttgatgcaaa acaaaattgt ctaaagggtac atacgctggg cttgtcaaaa 300
c 301

<210> 39542
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-044-Q1-K1-H10

<400> 39542

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tcgtcacaaat gaacatTTTTT aaccatttta aaccatcatg ggggcacatg attttaacaa 120
aacaccgtta aaagttagtt ttgcaaaacc aggaaggcga acttggggga acatacacgc 180
cctgggtgta cccaaggatt aggagtggac cccatgaaaa gtt 223

<210> 39543
<211> 288
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-D6

<400> 39543

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 tgcattgcaca ctagggtagg tctttgccaa ccttggaagc atagtttctt gaatagtttc 120
 tctttttttt cttctttctt cctagtattt tcttcccttc tcttcgcac c atagatgat 180
 tccttagtgt ctagctgctg tttttgtgta aacctctgta agtttctgt tccatcacat 240
 atgagtaagg cctttttgtg tctttttatc taagtaaaaa aatatgat 288

<210> 39544
 <211> 58
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-G10

<400> 39544

tcgcccacgc gtccgcggac gcgtggtaaa tttcttaggg aagttgtagt ttttccgc 58

<210> 39545
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H4

<400> 39545

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 atgtcggact cggaggagca ccacttcgaa tcgaaggccg acgctggggc gtccaagacc 180
 taccgcagc aggetggcac cgtccgtaag aacggcttca tcgtcatcaa gaaccgtccc 240
 tgcaaggttg tggaggtttc tacctccaag actggtaagc atggccacgc caaatgccac 300
 tttgtcgcca tagacatatt caatgggaaa aagcttgaag atattgttcc ttcacacac 360
 aactgtgaca ttccgcattg gaaccgtact gagtatcagc tgattgatat ttctgaagat 420
 ggattttgtg gccttcttac ttc 443

<210> 39546
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H6

<400> 39546

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ccctttattg atgggattag gaggaattcc tgccaccaag gacaacggga tttgccattt 120
tggcgctgtc tggacttaac actgaagctg ctgatctttc tcttgactg gtaatagata 180
ggtttatacc tggaattaat cgaataccat attttttttt gaaacacata ctaatttatt 240
tgctttctat accattgaaa ttttgtcatg tattgttggt ggaagtacta ttgtgctttg 300
aaggaattga aagactttga taaagaaaac 330

<210> 39547

<211> 155

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-045-Q1-K1-H8

<400> 39547

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gggaaaaaaaa gggcggacaa tatggagaga tccatgctaa catacccatc catgcaacgg 120
gatcgccgtt ctatagggcc ccctaaattc aatcg 155

<210> 39548

<211> 325

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3069-046-Q1-K1-D5

<400> 39548

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ccagtccatg gttgatcagc tgagcatttt gcatattcat tcccttcttg cagttctgtg 120
aatagcgagg gtgtgtgctt cattggaagt tgaatcgctc gaagtgtcat ggtttatcgt 180
ttccggagta gacatccatt ttgtttttca gcttgctcgc gggcatgcc a tgtatatttg 240
cttggatttg tgttcttggt taaaatttcc agtcttggtg atattggatt tgtttgtcgc 300
tggagatctt angattgttg caata 325

<210> 39549
 <211> 341
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-A5

<400> 39549

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 atctactctc aaacatatca ctgagttctc acccaggacc tactactcct ggatatgaca 180
 cactaacact ccactaacg tctatagtgc acctcagagc attggatata gccctgaccg 240
 tgccaagtac ttcatgaat actctgagca taatgaatca tacctgaccg gtgaattaca 300
 tgggtgactac ggatggaaca ctcatgaact atcacctgac c 341

<210> 39550
 <211> 414
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-B6

<400> 39550

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 cggtaaatagc cggcgctgcc aagaccaccg tccccaatcc ggccaaggcc tacgacggca 120
 agtcatagaa ggcagcggct gacacgcaa agaaggccgc tgctgctggg accaagcgca 180
 aagtgccga gaagaacgtc gtggcgaagc cgaagaagtt ctccgtcgcc aaggccaatg 240
 ccaagcccaa gaccctgaaa tgcctgcct acaagaaggc acggaaggcc tccgcatgag 300
 atgggttgct ttaggtctaa gctctgattg atgctggtgt cagctaggta ctgtacaaac 360
 tatgtgtgtg cccaaagtgt ctcatgcggt gtgctatgtg cttaagaagt tcta 414

<210> 39551
 <211> 145
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C5

<400> 39551

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attgtgcatt cacagaagat gtatcggaca ttcttaagtt tttgattttg tttctctgta 120
acaatgtatc aaggcacgat ggtct 145

<210> 39552

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-C6

<400> 39552

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tagcacagcc tgcagctatt caccctattt gcctgccctc atgattttag agcaggcgaa 120
tgctctaaaa tggatgatgat ggtgttctct ctatatcggt cacactagaa cat 173

<210> 39553

<211> 410

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-D3

<400> 39553

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ccgcctcagc cctcaaggct tttccttctc atcttcttct caggccgggg acgggcccga 120
cggggacagg gacaaaagggt ggtgcatct tgttgggcac actccgcctc cgcgcgcggg 180
aagagagaga gagagagaga gagagagaga gagaaggacg gagggaggca gggccgccgc 240
gccggtgagc cgacccccag ccatggcatt gccggctccc cccgtccgcc tggcgtgct 300
gctgctcgtc gcgctgccat tctgcgccgc gcatcccggg ccgggggect tcaacgctcc 360
tcgccacttt cagacgcccc cgctccactc tgatggattt ggcttgggtg 410

<210> 39554

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-E12

<400> 39554

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cggggatgct gctgatgggtg tgccttggtg aggtttcttc tgctccaaag agacaagaac 120
aaatactgga agaagaacta cattctcccg ataacaagcc acttattgtg agagacggga 180
acagatggct aatgcaggac atagattgta gcgggttggtg caagacgagg tgcactgcac 240
attccatacc caacttggtg actaaggcgt gtggcacatg ctgagtgagg tgtaagtgtc 300
tcccacctgg tacatctgga aatacgcaac tatgtggagc ttgctacact gatatgacta 360
cccatggcaa cacgaccaag tgcccttaga gaaactaccc attgcgaaat gtgtgcttca 420
ttgattatgc accgaacttc aagtgtacta gtatgt 456

<210> 39555

<211> 422

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-047-Q1-K1-G5

<400> 39555

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cctcatctct tgccctcttt atctttctcc agatgcttat ctcccgcttt ggatggactt 180
aagtacgctc attcacatga atggctcaag caccaatgct cagtgcgcc cattgttattc 240
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gacacagttt ccaacaagtc tggcttctga tcccgtaaa ctgttaaagc aacaagcgat 360
ataaaccctt caatctcgca tgagatcgcc tatgtcaaca aaaagcttac aaaaactcct 420
tc 422

<210> 39556

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A10

<400> 39556

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tatggcattg tctacgtcga ccgcaacaat aactgcacgc gctacatgaa ggagtctgcc 180
aagtggttga aacagttcaa cgccgcgaag aagcccagca agaagattct tacgccagct 240
tagaaatcgg gggcctcatg atgtgggtgc agcccataaa aaactgggtgt gtggtttgga 300
accgaaaatt ttctggcttt ttccgccacg agaggttctg gaggcatact ctccagcacc 360
gtggctaata acgcattggt ccaattcagt ctggccttgt catgcatgca atatataaag 420
tgatgg 426

<210> 39557

<211> 161

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-A7

<400> 39557

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aggggtctta tgcagatgga ttagggcctg tgttgcttgg gggcttcaca cttgctttaa 120
taactgggtg catcctcctt ctggatgggc agagtcaatt c 161

<210> 39558

<211> 323

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-D2

<400> 39558

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catggccaac catgaggtac tcgtttcacg gagatggat atgatatagg tgatcggagt 120
gatattttac atggtgcata tagtaacttg tcgaactgag aatgttttac ctgtgatgta 180
catcggactt ggaagctttg tatcattgat acaccttttc aatgggtggcg aataaattta 240
cagcagatgt tttcaataac ctttttaaaa aaaaaaaact gccttaagga ctaaagttac 300

catagaacaa atttaattaa aac

323

<210> 39559

<211> 90

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E3

<400> 39559

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aaaaagaaaa gaattaaaag aaaaaaagag 90

<210> 39560

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-048-Q1-K1-E7

<400> 39560

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gtgttcaccg acaatgcaca tgacgcgagc gtggtggtgg tgtcgttccg gcgcacggag 180

cccttcaaca tgcgggactg gtccacggac gtaaacctgt cgtgggtggg catgggagag 240

ctggggccacg ttcacgtcgg ctctctcaag gcgctgggcc tgcaagagga ggacggcaag 300

gacgccacgc gggcgttccc caaagccgac cccaacggcg tcccgggcaa accgctggcc 360

tactacgcgc ttggcgagga agtccaaaag caactgcaga agcaccgaa cgccaacgtt 420

ctggtcaccg gccac 435

<210> 39561

<211> 227

<212> DNA

<213> Zea mays

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<400> 39561

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aacttaaacc aaaaaaaccc ttaattttact tttttttaaat cgtaaacttt tttttttaaaa 120
 gatccaaatt taaatactct tgcatttctaa ttcaaaactc ttttataatg ccacctaata 180
 ttaaattaat ggccctcatt ttaaaaaaatt atgaatttta aaaacct 227

<210> 39562
 <211> 260
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-048-Q1-K1-F10
 <400> 39562

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 aaaaaaatct tacagaatat gttctagatt ttattggtga aaggaaaaat gttgcagatt 180
 taggtagttc aattagagac aatcgattca aagatcagaa aacaaggctg caggtagtct 240
 ttggactttc attgactaca 260

<210> 39563
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3069-049-Q1-K1-D11
 <400> 39563

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 ggctgggcaa tgccgcgcca tctcgcgctg ctctgcccc tgctactgct ggcctcgccg 120
 gcggccacgc gcctggcgtc cgccgactgc gggggcgaga agttcccggc ggggcgtgcg 180
 tacgcgtcgt gcgaggacct gccgaagctg ggcgcgtcgc tgcactggac gtacgacgcg 240
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 gcgtggggcc tgaacccgac gggcgaaggc atggccggcg cgcaagccct ggtggcgctg 360
 gcggaggccg gggccgcggc gcccgccgtg cggacgtaca acatcaaccg ggtacgtccc 420
 gctgggca 428

<210> 39564
<211> 107
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-049-Q1-K1-D3

<400> 39564

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ttaaaattct aaaaaacaaa aaagaataag aaaagaggaa aaagggt 107

<210> 39565
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-F4

<400> 39565

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gttctggtgg gagatttggg gaccgttctg gtggccggcg tgggtggtgg agatttgggtg 180
aaagatctgg gggcagggat ggtggcggca gattcgggtg ccgacgtggg ggtaggggatg 240
gcggccgaag acgtggtggc cgtggctttg gtaacaagca cagcgctggc acttccagtg 300
caagaaagaa gactactttt ggtgatgatt gatgatgaac gcggaggatg cggcaaaagg 360
atccaatgaa attgtgtttt tttggtcttg gttgggtacc gtaactggaa tttggtattt 420
tttggctact atttact 437

<210> 39566
<211> 308
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-049-Q1-K1-G1

<400> 39566

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gattggtatg ccattataga cttggtgctg cgaaagactg ctttgggtgat ttgtgggttt 120

gttgctgtgt aaaaagatcc tcatggcttc cagaagacca tgaaggtttg gatctatcat 180
gtaattcctt gttatctgcc aattatgtat ggactatgga catgtgttgc gctgttcaac 240
tcactacaaa taagtaatcg atatattccc taaaaaaaaa aataaaaaaa atttaataaa 300
taatataa 308

<210> 39567
<211> 368
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-049-Q1-K1-H4
<400> 39567

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atgctaagcg cacaaaggag ttccatttct gttcaactga ttttcctgaa ccagtaagt 180
ctgtgcctta tacgttggcc actacctctt tgtctgcagc agcttctaca aaccaaactg 240
gtgatgttcc catgtccagt acacctgctg ctgcttgttt gccctctggg aatgtgcata 300
tgcataaagt cgttactact tatacaccgg tacctattac gcctgtcttg gctacaacta 360
tacacttt 368

<210> 39568
<211> 373
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-050-Q1-K1-C12
<400> 39568

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cgggtgagtg acaaggctga gaaaattgaa ctctgctact atagcgtgga aaatgaagag 180
caacaaggaa tggaaattaa cgggccggga ctcttccggg gtacaaggaa ggaacgtact 240
ccatcagttc atggtgttac cgtagctcga cgaccgccg agaatgtgcy gatgatgtcc 300
tccggcaccg gcaccgtaca gcccgtggg aggagccatc gacatcgagg tgccggtgcc 360

ggcgcccgaa cca 373

<210> 39569
<211> 53
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-E12

<400> 39569

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<210> 39570
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-F9

<400> 39570

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gggtttacga ccgggcgggg gcggaattca tgccctccgga ttacaaggg ccgtcgggtga 120
gcgcacccga cactgcgctg attgctgtgc tcgttcagca ctagacctta cctactgcta 180
aaccaactac atcggcggcg tgccctgcaac catataacat atgtctttcc gaggcctctg 240
gcgacgtcct cggaattcct aacactgacc gtatgccttc acg 283

<210> 39571
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-050-Q1-K1-G5

<400> 39571

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tggggtagat atgaaaagag cttgtcgttt gcggtgcttac tcttgtgtgg agtgctcgag 120
tggcgatgag tgtatgtatt gtgaaaggga tacgggatgt ggctagatac atgagttatc 180
atgtctaaat ccacacgtat gatgatcatc cgggtttatg tacattcatg 230

<210> 39572
 <211> 315
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-050-Q1-K1-H2

 <400> 39572

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 cggagtctca acgatctcag ctatcagaga gttgtctcaa cggctctaac tatcaaagag 180
 ttcatgccgc tatctagcaa ggctgctatg taactgaacg atatgaatat gggttgattt 240
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 tttaaaaaat aaatt 315

<210> 39573
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3069-051-Q1-K1-E5

 <400> 39573

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 ctcccatgt cgctccact cgagctcgac tacataggcc tctcgccgcc ggcggcagcc 180
 gccgccgctg aaaacgacga actgaagggt actgagctcc gcctcgggct gccagggtcc 240
 gggctgcggg accgccgtgt cgaggctgcc accgcgacca ccctggacct gctcctggac 300
 aagggcgcca agcgcggtt ttctgacgag gcgccccga catcgctgt tgccactgcc 360
 ggaaagggaa agaaggtggc acatgaggag tacgacgaga agaacgtggc agcgaccccg 420
 caaacggccg ccaaagcaca 440

<210> 39574
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations

<223> Clone ID: LIB3069-051-Q1-K1-F10

<400> 39574

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aaccccccca agaaaccctg ggcaagggcg gaggctacca ccacggcctt ttttttgcgg 120
gttcttaaac cagaaatccc cccctttggg gtccttaagg gaccgcggga agaaccctaa 180
aaaaacaaaa aaaaaaaaaa ggggggggcc cccaaaagaa accaagctta aggacccggg 240
caggcgacaa aaaaactttt ctaaaagggg acccaaaaca aaaccaccgg ccgggggtttg 300
acaaaccccg gagggggaaa acccggggga acccaaaaaa accccttgga gaagatcacc 360
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<210> 39575

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-F4

<400> 39575

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gagcggcggg tgccaatgcc gaggtcatg aagcgtattg caaacgtct taaggattct 120
cagaacacct ttgcaatgct gagtacattht aatgaagttg acatgaccaa tttgatgaag 180
cttcgtttctg attataaaga tgaatttgtc acaaagcatg gtgtaaaatt gggctcttatg 240
tcttgctttg tcaaggctgc tgtttctgca cttcaaaacc agccaattgt caatgctgtc 300
attgatggtg atgacatcat atacagagac tacgtagaca tcagtgttgc tgttggcact 360
tccaagggcc ttgtggttcc tgttatccga gatgctgata ccatgaactt tgctgacatt 420
gagaaagggg taaacaacct tg 442

<210> 39576

<211> 446

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-051-Q1-K1-G3

<400> 39576

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ggtagccatt cgcggcgcaa agtacgcgtt tagaagacca aggaattgct ccgacagtaa 180
ggaccttacc ggggtccttc acattttcca gaagaaagtg cacaacgcct ccagaggctg 240
tgcacaaggt aatttaactg aatcaacagg ggttccttc ctaaaccggc ttactgggga 300
tacacttcat aggtacctag aggatcaaaa cgttgcaa atgatccgtggc acggatttga 360
agaaagggtac ctcaaggagg aagttaacag tcttataaat tcaactctca acgagcgca 420
gagggacatt attcgattat atcatg 446

<210> 39577
<211> 422
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-051-Q1-K1-H2
<400> 39577

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gacggcctct cgggcgagag cccgcggctg gtccggggcg cgctgctcca cctggacctg 120
cgcggggaacc ggctgtcggg cggggtgccg ccgctgccgg gcacgctgtc gtacctgtcg 180
ctggcgggga accgtctctc gggccccgtg gacggcgtgc tgcggcgct gccgaggctg 240
acgttcctcg acctcggccg gaactggctg tcgggcgagg tcccgggcga ggtgttcgctg 300
ttccggcgca tcgctacct gcagctgcgg aagaacgct tctcgggcga gctccggccc 360
gcggggcgcg tgccggcggg cgccacggtg gacctgagcc acaacgcgt gtcggggcg 420
gt 442

<210> 39578
<211> 447
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3069-051-Q1-K1-H7
<400> 39578

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ggaaatttac tggcgaaatc agtccagaat cagaagatgt cgatggaact tcactgtatc 120
 aggcatcact aggccacctc agtattcgaa atactgacaa aaatacagag ttccctccag 180
 cagaatcttg gataactgaa ggagattaca tctcgtgggc aaaatgctct aacggatctg 240
 aactcgtgaa tctgaaaatc agctggaagc tgaagaacct tgatcaacca caaccaccat 300
 tcagcaagta caatatctat gtggagaagt taacggcaga ttcagacttg aaagttccca 360
 gtcccaaaag ctatcttgga gttgctagtg tcgatgcctt ctatgtgtcg ggcttagagg 420
 tctccaacga agtcaccggg ctgaaat 447

<210> 39579
 <211> 432
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-052-Q1-K1-D10
 <400> 39579

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 gcaggggaca tagagaagtt agagatgtca gcaacgccga ccacaacagt gtgtatttca 120
 tcggtagagc aacagggagc tgcttcttta agtgogaaga ttaccaatgc ttctgtttct 180
 gaaggacaga agaatecttg aaattatatg ccttctgccca tttcaattcc cgtggggagc 240
 catgtttctg gcctggggcg aacaagtatt gaagaaacaa ctgccactat gataactcag 300
 gtcctgcag tttcaaaatc agaacgaaga aaacttccaa gaggcagtca acaaggattt 360
 cagtttgaga gttcagcatc aaaaacaaag atggatatcag ctgtggaacc agcacctgca 420
 aatgttgaat gc 432

<210> 39580
 <211> 403
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3069-052-Q1-K1-E11
 <400> 39580

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gacgcttgcc ttgctgagga ccttgacagc aaggttgctt gcgagacctg caccaagacc 120
aacatgggtca tgggtctttgg tgagatcacc accaaggcca atgtcgacta cgagaagatt 180
gtcagggaga catgccgcaa cattggtttc gtgtcgaacg atgtcgggct tgacgctgac 240
cactgcaagg tgcttgtgaa cattgagcag cagtcccctg atattgctca ggggtgtgcac 300
ggccacttca ccaagcgccc cgaggagatt ggagctgggtg accaggggca catgtttggg 360
tatgcgactg actagacccc tgagctgatg cccctcaacc atg 403

<210> 39581
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-A4

<400> 39581

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gacaatgggt tccctgaagg ccgcgaatcc cagcggagtt gcggcgcagg gcaaggagcc 120
ggcgcccaag ctacgagaga cggcgacgaa gccgtcagcc gcgaagagcg gcggcggttaa 180
gaaggctgag cagaagcccc gggaaaccaa aaggaagggtg aagagcagca aaccggcggc 240
ggcgggccaaa aagttagcgtc cagtacagta cgtgtggagt gtaatggagc ttcccatgca 300
tgagtgaatc catgccatgt tatgaatcta gtccttcctt tcttgtatct tccatgtgac 360
gcggcggtgtg cgtcccctca tgtgtgatga tgccagatga atacta 406

<210> 39582
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-B9

<400> 39582

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gtcattctcg agagcagggg gacgcgcccc ccgcgatggc tcgaaccaag caccatgccg 120
tgaggaacac agtgtataat cccatgatta atctccattt cgatcgctca tgtgggtgga 180
gtacctcttc gactccggtg agcgcgtgcg tgcagacatc agttccctcc ttttgccttt 240

cttgagggct gctcttactt gcttgcatgc tgtttgatgg tatgcaagaa atggctgctt 300
ggacc 305

<210> 39583
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-D4

<400> 39583

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gtgcataact gcaatctggg gcaggcccg c attgaacgtg agcgcaagt gatcctacga 120
gagatggaag aggttgaggg acagtctgaa gaagttatat ttgatcatct ccatgcaact 180
gcattccaat atacatccct tggcagacca atcttgggtt ctgcagataa cgtcaagtca 240
atcaccaaag aagacctcga gaactacatt gcaactcatt atacagcttc taaaatgggtt 300
atcac 305

<210> 39584
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-E6

<400> 39584

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ggcgcccgga ggaaaaacct gaaacttttt ttccctcttt ataataagaa cttaccgact 120
gcttccatac catctgatag gaaaaacat c aacctttgc tgtataaacc aacacttgat 180
acaaaaaat ttcaagaacc aacctttctt tatcaggggtg ccaacaagt tccaaccag 240
aaaacaaaac gggagatctt cttcaatttt taagaacctt atatttttcc acattcccg 300
ggccttccca aaggcctgcc catgggtgaa cccc 334

<210> 39585
<211> 86
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-053-Q1-K1-G8

<400> 39585

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ctatttttaaa cggcggaggg gccac 86

<210> 39586

<211> 412

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-A1

<400> 39586

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cagtattctt ggtcttctct gcgaatggga ctgggcactc ctgtggcatg gctgagatgg 120

ctgctcctgt tgactatcac aaggacatgg acttctggtg tcaggataaa cggaccggct 180

gcttacctgt gagatggcac actgttaaag atataccgac tggttttttg cagcatatca 240

cactgcagaa taatgaaaac aagcctgtga ctcacagcag agatacacag gaaataccat 300

acctgcctgg aatatctgtg atcaagatct tcatagacct cagagtgagg gactgcctgt 360

ctgatgatgt tatgacatat gaggcagaac aggcgcaaat gaagccgcac ag 412

<210> 39587

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-E6

<400> 39587

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atggtactgt tggcttcatt gctggaatgc tggttataat caacctttac tgctctatat 120

tggctctttt ttggtttgca caaccagggg ggttggtttt ctgaatcaat caatccatct 180

cctcggacac aagataatct ttgtatgtta cacttcccaa aattgcaatt aattcagaag 240

tctgcctact ttcattcagt tagttctcag caaactgaa aggatatgaa tcagtcaacc 300

cgatagatgt ttatctgggt attccaaaca atctgacatc acatctgttt ctgcaggcga 360

gataaggaaa atctgaaatg ctatcaccat ttaaaacatt ggctcctgga agttcaggag 420
tcgttcttaa ac 432

<210> 39588
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-054-Q1-K1-F8

<400> 39588

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cattttgcag catttcaaat ttagcaaaat cttaacctgc agtggacttg caagttgcac 120
ataactatca tcgcatcggc atgccagggt gtatttcatg ttgataaccg gggaatgaga 180
agacaacgat agtgtagagc tggtaaccat cacctagttt tttcttcttt ggtttacatg 240
tataattatg cctcctgaca cctttttggg tttcagtgtg tcatatacca gtgtacaggt 300
tcggacctga acattaattt aattgatagt ggtcttgtat gttt 344

<210> 39589
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A1

<400> 39589

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gaaaaagaat tggcataatg tgacatgctt gtacctgaag agcactatgg gaaagggtgta 180
ccggctgttc taaattttcc aattaggctt agaattctca ggagactcta atgcttggac 240
acttgccatt tttcctaaca ttcatttttt tgatccac 278

<210> 39590
<211> 108
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-A4

<400> 39590
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 gtggaagaaa aaaaaactaa aaacggcgaa caacaccaaa actacctt 108

<210> 39591
 <211> 83
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-055-Q1-K1-H1

<400> 39591
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 aagagagaaa aaaaaaaaaa aaa 83

<210> 39592
 <211> 94
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-B6

<400> 39592
 aaaaagaaaa aaaaaaaaaa aaaaaataaa tttataaaaa aaaaaaaaaa aaaaaaaagg 60
 gtgagaaaat ttaaaaaaaaaa aagaaagagc acaa 94

<210> 39593
 <211> 398
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-D8

<400> 39593
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 aaaagatggc tcgatggttt atcccgcacg tgccgattca agcgactact ttagctatca 180
 aaagcaaaac cacggtagta gagatagcct tggaactgca catttctatt aactggacat 240
 gtataaatag ttctcgtgag cgcacaccat gtaatcgtcg aaattcatcc atgtgtttgtg 300

acatttttttg agcacagttg aacatgtggt ggagcctgga agcaagtcaa aataaaaaaa 360
atgtctgata atgctataag ataataactg ttaattaa 398

<210> 39594
<211> 57
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-E10

<400> 39594

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<210> 39595
<211> 166
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F3

<400> 39595

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ttgggtccgc gtttggaatt tgcgttttca atccggtatt gaaggtataa taattaacaa 120
ctagtacggc ggcaacaaaa aaaagaaaag gacaaacctt gaaacc 166

<210> 39596
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-F5

<400> 39596

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ggtgttcatt aataatcaca cgagcgtgtg gggttcatgg tggaaagatc atcaatgggg 120
ctacaagtgc tgcaagcaga ctatcaagaa tagttactgt actggcttgg ctggaataga 180
agctgccgaa gcatcagcag atctaataa ggccaatatg gctcgcaagg aggctgcaga 240
agatgagcct gtacagcatg aagagaagcg attagccact tggggaaccg atgtgcctca 300
ggatcttatt cttaacgaga agaagctcca ggaatctcta aagaaagaaa ctgcgaagag 360

gaaagaagag aaagatgaaa ggaagaggaa gtataacgtg aagtttaacg a 411

<210> 39597
<211> 136
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-G12

<400> 39597

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gcgtgtgagc aggccgtcat gcctcctcca gtctnctatg aacaagncta agctataata 120
gtatttntgc tatect 136

<210> 39598
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G7

<400> 39598

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gattggtctt tctggttggg ggcaaaactct tctgaaagtc tgagagtcga tgcgcagta 180
cttgatcagt accttgttga tagtaciaaag aaactcaaga gcctcttccc aagttgggcc 240
gggctgtttg tataaatatg gaatgcaagg tgccctttgt tgggtctgcc ggaaattatc 300
cagaaaaaaaa aaaaaaaaaa aaaaaactaa tataaaaaaaaa aaaaaaaaaa agtaacaaaa 360
ataaataaa 369

<210> 39599
<211> 343
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-G8

<400> 39599

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cgtgatgatc tggtgcgct cgataaggac tacgacgagg tcggtgctga atctgactag 120
ggtgaggact gcgactaggg tgacgagcac tagacgctct actggcgag cgtcgactgg 180
cttgtgtgcc actgctatac tgtgatctga cctgagtggc tctatcgtg ttatgtttct 240
gtcggttctt atctatctgt cgttctgtgg gctacaactt acgttgtacg actttattcc 300
accgctatgc tactgggtta ttaagttttg gcgttatcgc ttt 343

<210> 39600
<211> 443
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3069-056-Q1-K1-H6

<400> 39600

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ccctgctgct cgccatggca tcttacagtc tctcgtcgg cccctgctcc tgtctttgct 180
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cgcgtcacct gctcgtggnt atgtgaaacc agcgagcctg ttctcacggc gtagcttctt 360
cgcgacatcg ttcagcccggt ggaggtacgt caattgatca cgtgatgtgg aagacaagga 420
tcggattgat cttcagataa tgc 443

<210> 39601
<211> 418
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3069-056-Q1-K1-H7

<400> 39601

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ttcggagcgg ccatagctgc agcagtcct ctttacagaa ggttcagagc attagaagat 180

aacgtagaga agacggcgga agcggcgatc gaagtgatcg actcgggtggc ggaggcgacc 240
 gagaaggctcg ccgacgaggt tgcgcaagcg ttccccggca gtgaaactct caagcaggca 300
 gcctccaaga ttaagacgat cgcggatgag atcgaagaat atgccgacaa agctgatgcc 360
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<210> 39602
 <211> 214
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3069-057-Q1-K1-G11

<400> 39602

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 ctgataaagt gataatttat tcagagaata aaaaatgggc tccatgcttt gtctaaaana 180
 aaaaaaaaaa cangctaaaa aaactaaata aaaa 214

<210> 39603
 <211> 380
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-H9

<400> 39603

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 cgagcgagtg gaaatactat ctgtacaggc acatcatctt cgacatccta tacaacaacg 180
 accgggtgat cgaaatcaat gtgcacactg atcagagtgc attggttgac ctgacagatg 240
 ataaggagac caatgtggaa ttctgtact cagccaagtg gaaggagaca ccaacaccat 300
 tcgagaagag gatggagaag tacttcagct ccttcaacat gccacaccac ctggaggttc 360
 attggttctc aattattaac 380

<210> 39604

<211> 375
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-056-Q1-K1-G10

 <400> 39604

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 cttcaagacg tacggcgacc ggggtgaagaa ctggttcacc atcaacgagc cgaggatgat 120
 ggcccagcat ggctacggcg acggcttctt cccccccgcc agatgcaccg gctgccagtt 180
 cggcggcaac tccgccaccg agccgtacat cgccggccac cacctcctcc tcgcgcacgc 240
 tgccgctgtc aagctgtacc gcagcaagta caaggttcgt caggccggca agatcggcat 300
 cctgctggac ttcgtgtggg acgagccgct gaccaagtcc gtggaggacg agtacgcggc 360
 gcaccgggct cggat 375

<210> 39605
 <211> 384
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-056-Q1-K1-G11

 <400> 39605

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 gagcaggccg cettgtacat acttttgcaa aaacgaggtg tctgtacata ttgttcgtcg 180
 tgtcgtgtcg tgtcagagtg cctgatggca acgggctaata acgttcgtgc caacgtgtgc 240
 atggtatccc acggaccctg tggtagtaag gagcagttgt aaatatgccg tgcttcctct 300
 ccatgtggag tgctgctgta taaatagatt ggtgcattgc taaatacctc tgcttggaag 360
 aaaaaattta atataaaaag ggcg 384

<210> 39606
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-056-Q1-K1-G3

<400> 39606

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ttgctccgat gggcaaggac tcgaagccga aggacgccaa ggggaagggc aagcaggcgg 120

ccggctcctc tggcggcgac gacggcggcg gcaagggagg caagggcaag ggcaagggca 180

agggcgggcaa gtccgctgac ggactcggca cttgcaccta cgtcaaagct aggcacgtat 240

tgtgtgagaa gcaggggaag atcaatgaag cttataagaa gttgcaggat ggatggctga 300

ataatgggga caaagttcct cctgctgagt ttgctaaggt agcacaagag tattctgaat 360

gcccacatg gaagaaaggt ggagatcttg gttggttccc gcgtggcaag atggctggt 419

<210> 39607

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-G4

<400> 39607

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gatcaggttc cccaagcgga atctcaaagc cccatctcca tccgcgccag cggcgtcgca 120

accgcgagac cagcacgcga cctcatgtt ccggttaggg gctaaagcag aggcaccatc 180

ttctggagag attaaaaatt accgcttttag atctgatgtg ccttgcccac cttctcatac 240

tgccgtagga ggtccagctt cactccttcc taagcgcaaa cccctgactg aagaagagat 300

tgaggctatt atgctggggg gatccatctg atatcacctc atatgaattg gaaattctag 360

gaacatcaat aagattgtat gctgagctt attgcctttg acctctgaaa gagtgttatc 420

gaagccatgt cgatatgtaa gtgggttttt t 451

<210> 39608

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-G6

<400> 39608

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atcgctggga ggagtgcgt cgaagctgcc cagaacctgt tcccggactg ggagcttgag 120
aaggggctca aattcctaga ggacaaggaa gcaaaatata ggagtctggc aaaagagcgc 180
ttgggtgcctg tgaaaggcct cgcaagggtg gtccagtggg tgaaagacca ctggtacaag 240
cgcgcgggcg tgaccaacgc ccccaggatc aacgcggagc tgatgatctc gctcctgggc 300
ctctcggact tcttcaggc cgtcatcgtc ggaggcagc gcgagcagcc aaagcccgcg 360
ccgtaccctt atctcatggc cctcaaggag ctccaggtgt ccgcagagca cagcttcgtc 420
ttcgaggatt cg 432

<210> 39609
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-056-Q1-K1-G8

<400> 39609

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ctggaggatg gccgcacct tgcggattac aacatccaga aggagagcac cctccacctg 120
gtgctccgtc tcaggggtgg catgcagatc tttgtgaaga cactcactgg caagacaatc 180
acccttgagg tggagtcttc ggataccatt gacaatgtca aggccaagat ccaggacaag 240
gagggcatcc caccggacca gcagcgctc atcttcgccg gcaagcagct ggaggatggc 300
cgcaccttg cggaactaaa catccagaag gagagcacc tncacctggt gctccgcctc 360
atgggtggca tgcagatttt tgtgaagaca ttgactggca agaccatcac cttggagggtg 420
gagagctctg acaccattga caatgt 446

<210> 39610
<211> 338
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-H10

<400> 39610

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acttcgcgt catccacgag gaccttcacc catggcgcg cgttgtgggc tttaccgcgt 120

ccatgttcta tegtctcgc gctcattaca acttcctgct tttctgtcat ttgtgtcctt 180
tcttattatt gtgcattttt gttttctttt tttttgtttt acttttccca ttgttggttat 240
ttttatattt tttttttatt ttgttggttt tctttttttt ttatttttatt tttatatttt 300
ttttatgttt ttttttttat ttgttttctt tctttttt 338

<210> 39611
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-H3

<400> 39611

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ctgctcgttc cagtaattaa gtcaagataa atgccaataa acaagttaag aaaaatgccca 120
tcatggagga catagttgtc caagagttac ttgatgattt ctaggacact ccttgggcta 180
gagctagcta taaagttaag cttgatgatt ttgattctga ttttgagtct gccctactaa 240
aacaagaatc atgacctaca tttcatttaa ttctgcatg cagacccatg atgttgtatt 300
aactattcca gtgtgcaatt catcatgttt cttatatctc cattctactg ctttaatgat 360
atgtctagca tgtgtaatat tcctaatacat ggttcatctc gaatcgattg catacaaaat 420
gattatgtac gtatga 436

<210> 39612
<211> 85
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-H4

<400> 39612

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caatcaatgg aaaattatgc ttccg 85

<210> 39613
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-H7

<400> 39613

gacccccaac aacgaggagt gcttcacccct gaagctggag gctggcgccct cgacgctgcg 60
ggctcggagc gctggggcgt tcgacatcat ccaccacacg gtttggggct acttcagcca 120
gcgcacgggg ctgctcatcc agctcgaaga ctgcacactg ctccgcatga agtcgggcaa 180
gggcgctcgc cgcacgcaga acatcttctg ggagaccagc atggagtccg tcctctccga 240
ctaccgctac atcgacggca tcaacatcgc gcacggcggc cacaccaacg tcacgctctt 300
ccgctacggc gagggatccg tctaccacaa gcggaagctg gaagagacat ggactgttga 360
tgaggccgat ttcaacgtgc acggtctaac cacggactac t 401

<210> 39614

<211> 449

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-056-Q1-K1-H8

<400> 39614

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atgaggcagc gatccgtatg tcgtcctacg acttggcaag aagaaactta agacgagcgt 120
gaagaagaga tctgtgaacc ccctctggca cgaggagcta actctgaccg tcacagatcc 180
cagcctagct ctgaagctgg aggtgttcga caaggacacg ttcagcaggg acgacccgat 240
gggggacgcg gagatcgacg tggcgccgct ggtggaggcg gcgaacgcga gcccgaggcg 300
gagcctgagg aacggcgcca tcctcctgtc ggtgcggccg agcgccacga actgcctcgc 360
cgacgagagc cacgtgtgct ggaggaacgg caagtctcgc catgacatga tcctncggct 420
catgaacgtg gagagcgggtg agattcatc 449

<210> 39615

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-E3

<400> 39615

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cgccatgtct gatcccccg gcgagacgga ccataaccat cgcgatggaa agcaccggcg 120

atcgcacctc caccacctga atgtgcaggt ccctcccgtc gccagcaaca ttggctgctt 180

cgccggctgc ttccgcccgt ccccgacatc atcgtcttcc cccgccgcgc acggcaccaa 240

ctgccacgga cacggacacg gacacggaca ccggcacgcg gaccggccgg cgttcccgtc 300

tctgatccgg tcgccgtcgg cgtggatcaa agcgaatggc cagagcctcg ggtctggcag 360

gcacgcgcgc cgtcggctcc aggacttcca gtacgacgcc cttagctacg cgcgtaactt 420

cgacgagggc tggagc 436

<210> 39616

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-E4

<400> 39616

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ttcttcgggg cccaggctgc tgccgcctac atcagggggc ccaagttttc ctacttccta 120

ggaccctcgc ccggcgacga gcaccaccag cttggttcac tcccaacaaa atgtcagcca 180

atgtgggtga atcaactagc ggtgtcagca gcagcgatgc agctgggggg agcttttgagt 240

gcaacatatg cttcgagctg cctcaggagc caatagtgac tctctgtggc cacctcttct 300

gctggccgtg cctttaccgg tggctgcaca ttcacgcaca ctgccagag tgcccagtgt 360

gcaaggccct cgtggaggag gacaagctcg tcccccttta tgggcgtggc aaggatcgcg 420

tttacccgag gtcgaagaac atg 443

<210> 39617

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-E5

<400> 39617

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agctttgggtt attacagaac tttttggttag acttaaaggg tcctaatttg gcctttctac 120
cattactttc atttgaaggc ggttcattgg agaaacatac ccaagttcaa gattggtaca 180
ttaatatatg ctcgagtggg gaaagctaag agtatcatga atcccgagct ctcatgcatg 240
gatggtagct ctttttagtct tcagctcaat gttcatgctc cttacttgat catgataact 300
tcagaagtat ggcttaccaa attttattcg tcttatcata tttatcotta ttacctgtgc 360
taacctgtga gcttg 375

<210> 39618
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-056-Q1-K1-E6

<400> 39618

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actgttgttg aatttgcccc ggatatagta ccatcaatgg atggcgaggt caggaagcag 120
ttccaacgca tgctagaaaa acagaaattc aagttcatgc tcaagacaaa ggttgttggg 180
tgtgatacca gtggagatgg cgtaaagctg aactggagc ctgcagctgg tggtcagcag 240
accatccttg aagcagatgt tgttcttgtc tctgctggca gaagcccatt tacttctggg 300
attgggcttg aaactcttgg tgttgagaca gacaaggctg gcaggatcct tgttgataag 360
cgcttcatga ccaatgtgaa gggagtctat gcaatcgggt atgccatccc tggcccccat 420
gctgcccata nagctgaaa 439

<210> 39619
<211> 444
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-F1

<400> 39619

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ggtgctcatc cgtctgcttg tgaagatatg gggtcagcag tatcagtagt tgaggctgct 120

gctcaciaag gactgctaca atgtattgat actgttatgt ctgagggtga aagattgttg 180
tcttcagaac agaaggctac agattatcga acaccagatg atggagctgc accagatcat 240
cggccaacta atgcttgtat aagaattgta gcctatctct ctctgtttct tgagggtgca 300
ttcagtcccc ttgaaggcct caacaaacag tcctttttga ctgagctggg aaatcgcttg 360
cataaggggc tgcttaatca ttggcagaag ttcacattta gtcccagtgg tggcctacgg 420
ttgaaacgtg acataactga atat 444

<210> 39620
<211> 446
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-F3

<400> 39620

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ctggatcgtg agggacgggg gcctgatgct tctgctgtct cagctcctgc tcgccagaga 120
cggcttcgag agctgcaaga tccaggtgtt ctgcatcgcg gaagagggca cggaagccga 180
ggagctgaag gctgacgtca agaagttcct gtatgatctg aggatgagag ctgaggatcat 240
cgttgtgacc atgaagtcga tgggaagcgca ctctgagatc agccccaacg ctaagaagga 300
tccccaggag gactacgca ggcgccagga tagaatcaga gcgtacctgt cgcagatgaa 360
ggaggatgag cagagggaag gtcggccatt gatggatgat ggcaggcagg tcgtgggtcaa 420
cgaagagaag gtcgagaagt tcctct 446

<210> 39621
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-F5

<400> 39621

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ctctaagaag gtgacacctg acgtgatcgc ccagtacacc gtccgtaccc tccagaggac 120
cgtgcttgct gctgtgcctg ctgttgtctt actctgcggt ggtcagatcg aggaggaggc 180

caccctgaat ctgaatgcca tgaacaagct catcaccaag aagccatggg ccctgtcctt 240
 ctccttcggc cgtgccctcc aggcgagcac cctcaaggcc tgagctggca aggtggagaa 300
 cgtggagaag gctagagcgg ccttactcgc cagggtgcaag gccaaactccg aggttacatt 360
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 gtactgaatt gcttctc 437

<210> 39622
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-F7

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 cacagttcaa gacagaggag atgaccaaca tcatgaagga cttcgacgag cccgggttcc 180
 ttgccccgac cggcctcttc ctggcccca ccaagtacat ggtcatccaa ggcgagccct 240
 gcgctgtcat ccgcgggaag aagggatctg gaggcataac tgtgaagaag acagggcatg 300
 cgatggtggt cggcatctac gacgagccca tgacccccgg tcagtgtctac atggtggtcg 360
 agaggcctcg ggactacctt gtagagcaag ggccgtgaat ggatttaatt aacctcgctc 420
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<210> 39623
 <211> 406
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-F9

<400> 39623
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 accactgatt gagcgagtct ctaggcaaac agagaacctc agttggctct tggatattct 180
 agtaaacaat gacattgcag aagaatttgt agaactgtgg gcgaagcaag acaggtcat 240

taggatgcac gagcaagcgt cagcgatggg caggtatgag ctaagccgaa tatcagccgc 300
 tgtgttcatt gcaattggta aaggaaaagt tcagtgtcgt ggcgatgtac gaagcctcgt 360
 ctttcgtgga tggttcagca cgatgttggg gggatttggc tggcctt 406

<210> 39624

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-E12

<400> 39624

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 gggatccggg cgctcggggc gatggacggc ggcggcggcg gcgctggcg cgcgaggagg 120
 gagctcacgg cgcaggagac agcgtcttac gaccgccaga tccgcgtctg gggcgtcgat 180
 gccagaaga gactaagtaa ggcgcacgtg cttgtgtgtg gcatgaacgg aaccaccatc 240
 gagttctgca agaattattg tctagctgga gttggaagtt tacccttgat ggatgataat 300
 gtagtcacag aggaggatct gaatgcaaat ttcctaattc ctctgatga gagcatata 359

<210> 39625

<211> 405

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-C12

<400> 39625

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 ctccgacctg gaaacgatcc acgaggacgt cgtcaccagc gcgcaccaga agcgagccgc 180
 gctcatcgtg ctcccccttc acaagctcca ccagatcgac ggccacatgg agtcgcttgg 240
 cgaccagtac cagcacatca accagcgcgt gctccaccac gctccctgct ccgtaggcat 300
 cctcgtcgac cgcggcctcg gcggtgtcgc tcaggtggcc gtcagcgacg tgtcatacac 360
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<210> 39626
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-056-Q1-K1-C2

 <400> 39626

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 ggcatcgaca aagattcact gttagaactg gctctttcat cactcccaga agatgtttta 120
 gattatggat cagataccat gatgggggtg aagcaaaagt ttaactcctt gaaggaaact 180
 atcagacact tcagccttct accagcaggc ggtggtggaa tcctggcaca tactgttgct 240
 cgagttgctt cttcaatcaa gattaaaggc gataactctg gagatggcat tgagtctctt 300
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 gagcaagggt tacatggaac tgaagcagag gagatagcta ccg 403

<210> 39627
 <211> 262
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-056-Q1-K1-C3

 <400> 39627

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 gcttgcatg ggttcggtgc tccactttct ttttatgtga ttattaatct cgttttcaga 180
 tgcattgtaca catgtatgtg cctgcacat ttgggtcttg gaaaacttga tcattgtatt 240
 ccaatctcta gtgtagcaac ct 262

<210> 39628
 <211> 434
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-056-Q1-K1-C5

 <400> 39628

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 tgctgaagga gtctgcgggtg gagatccggc gccgctttga ggaccaccgt ggtctaacct 180
 cgggctccga cgatgcagcg cgtgccctcg ccgacgcccg cgaggcggcg cacttcatca 240
 cccatatgat agtccaggcc acacgcgcac cctccggatc cttegttgtg aagcctgaga 300
 gtgttcatgc tggagctaca ctggaagttc ctccgagga gatcctttca aagttgaagt 360
 angtcactag cattgctgaa gtaggtcacc atcttcatgc tagtaaaata agaccatgtt 420
 gcaacgggtg attc 434

<210> 39629
 <211> 366
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-056-Q1-K1-C6
 <400> 39629

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 tcaagatgga ggactcagcc aaccccatct tcatcgacat gaagtactgc cccaacaagt 120
 tgtgtactgc caacggcgcc tccaagggtca ccgtcaagga tgtcaccttc aagaacatca 180
 ccggcacctt cttcaccccg gagggcggtta gcctgctctg cactgccaaag gtcccatgca 240
 ccggcgtcac catggatgac gtcaacgtcg agtatagcgg caccaacaac aagaccatgg 300
 ctatattcac gaacgccaaag ggcagcacca aaggttgccct caaggagctt gcatgccttt 360
 agaccc 366

<210> 39630
 <211> 273
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-056-Q1-K1-C9
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ggtagcagttc ggcgtggagc gcggcatccc ggccatcttc gccgtgatgg gcacccagcg 180
 cctaccgttc gtcgccaacg tctttgacgt cgtgcactgc gcgcgctgtc gcgtaccgtg 240
 gcacatctac tgctgcatgc tcctcctoga gct 273

<210> 39631
 <211> 253
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D1

<400> 39631

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 tggatctaag cccaaagaaa cccatcatgg ccagctccag cgactgcgga gcctactact 120
 actgggccca cgccgatctg cccatgctcg gcgttgctt catgggtgcc gacaagctct 180
 gcctcaccgt cagatgtctt gccctacca gctacttoga ctctgccaag atcgtatacg 240
 taatgcatgg ctt 253

<210> 39632
 <211> 232
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D10

<400> 39632

cggacgcgtg ggtgtgaatc tacatggatc agccaaaaat ttaccagctt catgtgcctg 60
 aaagccaaag cattcacctg agctgtggat gttcccacag catgtcgtgc cgactatgcg 120
 cacaccattg tgcatactta atgcatccta cgattcgtgg caagccaaga acgttctaac 180
 acctagttca gttgatccga ataagacttg ggcccaattg caagcttgac at 232

<210> 39633
 <211> 365
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D12

<400> 39633

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 ctcccttggt ctaccgatgt ttggtggctt tgggtgatcg ccggagggcc tggatcgtgt 120
 tcgagagtgg ctgggcgcgg gagctctcta ggctggagca attgctcgac ggagcaattc 180
 cgtcgccgca gacccgtctc taaccgtggt tgagcttctg cgcgcacagt tcacggtact 240
 tgatacatgt tgggaattag gggggtagca gcacgttcac tttcactttt acaattacgc 300
 tgcccaggcg catccatgat ttttaattga aacctattgt caaaggaaag tttggttatt 360
 ttttt 365

<210> 39634
 <211> 300
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D2

<400> 39634

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 cgggagcgaa ttttcaggct tgggttaaaaa aaatcccctc attgtgctcc atccgctctc 120
 gggttacgat gtcttgtgcg ccacccttcg gttgggccgt tgcagagtgg acagttgaca 180
 ccggcccgtt agtgatgggg ggcaggggtc ggggattttc tcggtcggaa ccattgtttc 240
 ggtctcttct taatataata ctgggaggac ggtctttccc tccccggccg agtttttttt 300

<210> 39635
 <211> 270
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D3

<400> 39635

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 atccgagcga acatgccaac cgaccgcgtc cccaaggcaa tccgtcgccg acgtaccacc 120
 accaccgcaa gagcgagatg gagatgaaga ggatcctctt cgccgtcctc gtcgtcatcg 180
 ccgcctcggc caccgcagtg ctggccttca ccgaggccgt cgtcgcgggc gcccctaactg 240
 cctccgagtc gtccgcctag gctcccgtg 270

<210> 39636
<211> 113
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-D9

<400> 39636

cggacgcgtg ggcatataaa caagcgcaca ctaacaaata tcctttcgcc aataaggggc 60
gatagatcct tgattgggct cgctacggca atgcttgcta ctagtaccgc tgg 113

<210> 39637
<211> 406
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-056-Q1-K1-E1

<400> 39637

acgattcact ggtgtacagt ccacgcagca tcgcgagggc cacaaccacc ggcatccctg 60
tcggcgatca aggcgtggcc gtgctacgtg ggccgcttat cgtgggtgca gggccggcgg 120
gtctggcatg cgcggcgctt ctcaccatgt tatacattcc ctacgtgctc ctagagcgcg 180
acgtgtgcgt agcctcaatg tggcaccgtc gcacgtaccg caggttgtgt ctgcacctac 240
ccaagcgcta ctgtgagctc ccgctcatgc actttccacg cacctacccc acatatccaa 300
cccggcagca gttccttgtc tacctcaatg agtacatgcg cgcatntggc atcctgccat 360
ttttcagcct cgaggttgtc gctgccgagt acaacgggtga atactg 406

<210> 39638
<211> 328
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-C11

<400> 39638

gactccgtcc tcccacactc ctgccccgac ggcgacggcg actgcgtcga cgagaggcaa 60
gcgtctccgg cgggcggaga cacgtgtcgt tcggcgacct gagcctcgcg gaggggacgt 120
cgttcctgga gaggttcgag cagctgctgc cagctgcgct cgaggacacg aagtgcgctg 180

tgctagggac gtcgacgttc gcatcggttct gaccgggcta cgcactgggc aatcactacc 240
gacaccattt gcatgcatac atgcgtgagt gcgtgcgtgc gtggattcaa aataatacac 300
gtgtgcatgg tttcttacta gggaccta 328

<210> 39639
<211> 78
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-E10

<400> 39639

cggacgcgtg gggcagtggg agatcgagct cgggtggcat gaggcggacg cccggcacgc 60
ctggattctc aaggacgc 78

<210> 39640
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-E11

<400> 39640

gagcagcatt tcgagtaaca cagttgagca cgacgatggg atccctcgct aataacatca 60
tggtcgtggg cgccgtgctt gggcgcttg tcgtcgggcg gtcgtgcggg cccccgaagg 120
tgccgcccgg cctcaacatt accaccaact acaacggcaa gtggctcacc gccagggcca 180
cctggtacgg tcagcccaac ggtgccggcg ctcttgacaa cggcgggtgc tgcgggatca 240
agaacgtgaa cctgccaccc tacagcggca tgactgcttg cggcaacgtt cccatcttta 300
aagacggcaa gggcttttgc tcatgctacg aggtgtgatg caaggaaaaa 350

<210> 39641
<211> 437
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-056-Q1-K1-A6

<400> 39641

ggctggacta tccgctccag gaggtgaag ttagcatcgg ggcaaccagg tccactcgtc 60
 aggtctgcct aggttacgtc gacgacgacg aggacgggga agaggtgcct cagaactacc 120
 ggtcggttcgg ggcggtggga aatgtattta gaccaaggat cgggaggcgg aaccgtcgcc 180
 agcctcctgg agtgcacgtc ctgcaccctc agacaagacc cggcggtcgg atggagatgg 240
 agatgggtga gttcaggaac gaggaagctg aagatggcga ggtgtccgtc agcctcatgg 300
 agaccagggg cggcaactgg aagagaggtc ttactgtgca tggcattgag atcaggggtca 360
 agaagtaagg atgtgaaggc tgtgngatc gggctttgcg catcaaaaca tataaaagta 420
 tcttagttag atttggt 437

<210> 39642
 <211> 446
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-A7

<400> 39642

attctgatta tgagacgaaa ccaaccttaa gaaagtactc atcttcttcg aatcaccagg 60
 ttaagggtgaa taataaaatc agttctaata ctaagaggtc atcagctaag cccctaaga 120
 agtcatccaa gaaaacaaac ctctcaagcc agaaacttag agctctctct tccatctcca 180
 ctgcaaaaaa ccatcatgga gaagggtggtc aagcgaaggc aaattggcac aatgacatat 240
 ttgggtggttt aatcggatca gaaggagcag ttcctctagt gacatgtgtc ccaacgaagg 300
 ttgtgttcac taggatattg gaagcagttg gaaggccacc tctgtctgcc gtcgccgtg 360
 ttagaatggc tagtcctccg gtacgagatc ctccataggc ttcaactgta gtgctacatg 420
 cggtttatgt cgccagccat cgacat 446

<210> 39643
 <211> 431
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-A9

<400> 39643

cttaagaaga cggccaacgg cgtccgcac c aaggcgtatg aggacgccgc ctccgtgctc 60

accgectcca agatccactg tgagaatatc aagatggagg actcgggcta ccccatcatc 120
atcgacatga agtactgccc caacaagtta tgcaccgcca atggtgcctc caaggtcacc 180
gtcaaggacg tcaccttcaa gaacatcacc ggcacctcct ccaccccgga ggccgtcaac 240
ctgctctgct ctgccaagat cccatgcacc ggcgtcacca tggacgacgt caacatcaag 300
tacagtggca ccaacaacaa gaccatggcc gtatgcaaga acgctaaggg cagcgccaag 360
ggttgcctca aggagctcgc atgcttctag aaccaccatc gacccatctc tctagttata 420
caatgtgttt g 431

<210> 39644
<211> 327
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B10

<400> 39644

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cgaagtaaac atgtctgacc gggcaaagat gtcgtggcag gcgtacgtgg acgagcacct 120
gatgtgagcag atcgagggcc accacctcgc ggcggcggcc atcgtcggcc acgacggtgc 180
cgctggggcg cagagcacgg cgttccccga gttcaagacc gaggacatgg ccaacatcat 240
gaaggacttc gacgagccag ggcaccttgc gccgacaggc ctgttccttg gacctacaa 300
gtacatggtc attcaaggcg agcctgg 327

<210> 39645
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B11

<400> 39645

catatattca gacatttcat atcggttgca aatttccatt cttagaatct gtcagacgaa 60
aatttctggc aattgagggc gtgccatatt gtctacataa agatatgcag cttatcaagg 120
cctttaatca tattaaatct acaaattgcc agtctcatat atcaaaacgt attgacatgg 180
ttgtatatgc ttactgaatg gccttttggg gctta 215

<210> 39646
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B3

<400> 39646

cggactcgtg ggcggactcg tgggggatct tgaaaaggct gacatgtggt tggggaacct 60
actgctggaa cacagcgagg atatatacag gatgaaaggct ctgctttctg tcagtggaat 120
gccgcatcga tttgtctttc agggagtcca tgacattttc cagggatctc ctgagagaat 180
gtgggagcca aatgagccgc gcatcaacaa gattgtcttc atcggcagga acctcaataa 240
agaagagctg gataaggggt tcaaggattg cctactgaag aaatagagtg atttcagaat 300
agtcgggata tagatctcca gttttggcct tcttcgaatg tagtcagatt cacatcaatt 360
catatctgtt ggagtggatt gaagacagtg aagcttgaac taaattctac cccaattcat 420
ccgacatatg taga 434

<210> 39647
<211> 215
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B4

<400> 39647

cggactcgtg gggacctgca tcggcttgcc gcgacaacca gaggtcacag gagataattg 60
actgcatccc cggacatctg ccatgggagg taaccccgga cggcgtccag catctcgact 120
gaccaatagg acgtgccggg aagacgatcc tcgatattcg tacacacggt tcctcttgga 180
ataagactca catgcgggac catcattgac aagct 215

<210> 39648
<211> 375
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B5

<400> 39648

cagaagggga aaatgaggca tgggtgacac cgcggcggaa gtgaccgagc cacggcgacc 60
gccggtggga tatcttcggc cactcaaggc tgggttcgcg ggatggtgcc acgtccgaag 120
ttatctctcc gtgatcgacc cgcttcacca gatcactcaa gcacatccag ttcaacagtg 180
cctcacatct ttatccgctg tctgcagata tttacaatgc tttgatgttc agcgggtctac 240
tgaaccgacc acctatcatg cgcactttct catgtttctt gttaagaaca gggtagcgct 300
ccttaataaa atttgtctcc caaacaacat tcttcaagtt tgttataggg ttcattggatc 360
aattatgtat agatt 375

<210> 39649
<211> 433
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B6

<400> 39649

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gatcatccac ctgctcactg actccaatcc catccagggtg gtcgtggacg ccattatcaa 120
cagtggacca cgtgaggatg ccaccgctat tggttcagct ggtggttga gaaggcaggc 180
tgtggatata tcaccctga gaagggtgaa ccaggccatc tacctcctca ccactgggtgc 240
cagggagagc gctttcagga acatcaaaac cattgctgag tgccttgagc atgagttgat 300
caacgctgcc aagggtctct ccaacagcta cgccatcaag aagaaggacg agattgagcg 360
tgttgccaag gccaacggtt gagtggagct tgtatcctgg tgcacttgca ctagaactac 420
gtttctggca gtc 433

<210> 39650
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B7

<400> 39650

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tagacctctc cgatgcctgc tggttactcg aacctcaagt atctgccggg tgccggtaac 120

ttgcgcccag aagacctaata cagcattgac gccaaaggact caccggactg gcgctcgctt 180
gtttccaggt acaggcagat gaggcaactg gccatggtgt acatgctgct tggacccgtg 240
cagtttatgg atgaagacga agttgacttg cagatgtaag ctttgttttc cctgaaccgg 300
atcttggtga tcctaattga acggagcttg ctctgataaa tatagtgaga aaagatatgt 360
gtcgtcgctt aaaaaaataa aatttgatac cttatactat 400

<210> 39651
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B8

<400> 39651

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cgggtgcgagg caagctgcac agcaacacgg gccacgggcg cggcctccgc ctccgcctcc 120
acgcttctgc tgctaggctg caagggcggc ggctcggctc ggtgggcggc ggacagctgg 180
ccaggtccag ccagtagtc caggtgacga ggtccgcact ccgcaacggg tctggcgttc 240
tgcagctgag gatagacgag agaggaagtg aggatttata ttagtgattt acaaggcaac 300
ttgaaagaca gcagggttgc atcccacaat gtcagctccc aacagtgata gcaacatgca 360
gcagctagtc cctatagcac caccaggaaa ggcttctggt ggtgacaggg gaaggagctg 420
gttgtggcag at 432

<210> 39652
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-B9

<400> 39652

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gtcgtcggtg atctccgtcg gtgccagatt ttcgtcctcg gtgtttggct gagaggggtc 120
accatcgtcc gtggaagccg ttcattggctg tggttggagt caagtgccta tgcgcgggg 180
tgaattgctc accagagcag cggatccgcc catcgtcatg gttggtctgc gccagcgata 240

atcgacatcg acagacaagc aactgaggac ccagggtgctc agtaggtgga aaatactgac 300
catgagctcg ttgaaggtaa attgtgccct tgatcacttc tatttaccca ataatgttcc 360
tgттаатсат tatgacctgc ataggttaat tttgatggta cccaatatgt caccgccagt 420
tggtatcct tttc 434

<210> 39653
<211> 303
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-056-Q1-K1-C10
<400> 39653

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gatgcagccg tcggcgtagc ctgcggccct ggccacggca ttagcatcgg cagcctaggg 120
cggтacaagg acgagaagga cgтcacggac atcaacgtca aggatcgcac tcttaagaag 180
acgatgttcg gcgtccgcat caaggcgtag gaggactccg acttcgtgct caccgttttc 240
aagatccact actagaatat таagatggag gacttatcca accccatctt catcgacatg 300
aat 303

<210> 39654
<211> 152
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-055-Q1-K1-G7
<400> 39654

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ctagccaagg gtccgaagcc atgagatcgc gcccgttgcc aaagataacc gtgcccggcc 120
ctgaaaaggт cggcctgcaa ggcccctgat ct 152

<210> 39655
<211> 298
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-055-Q1-K1-G8

<400> 39655

tgaacatgca ggtggacgcg ttcgccaagc gcaccgcgca tgcgcgcaag cacgtcgcga 60

ggtcgggtccg cacgattccg ggcgagcaga cgcaggcgct cacgttctgc gacaccatgt 120

acatgaacac gcaggacacc atcggcgcg ggcgagcgggc catcacgttc aaggacaccg 180

gcaccgcaa gatcatgctg cagctcgccg tacaggactt cgactcgtgc gaccgtctct 240

tcactcatgc cggcgcccc aaccccatgg ggaagtttga caaggtgctc aatcagat 298

<210> 39656

<211> 209

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H10

<400> 39656

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tcagccgcca agaagagctc gagaggcaat ggccaccgca cggaaggatc ctaagcagggt 120

tgataaagtc aacctgaaac ccaacgagtc tcacaaaggg gtagtacggc atgcaagagt 180

ctgtgccgac ctctgcggat cgcatatcg 209

<210> 39657

<211> 388

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H11

<400> 39657

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catcccactc agtgcttgca gccatggcta ggggattgaa gaagcacttg aagaggctca 120

atgcgcccaa gcattggatg ctgcacaagc ttggcgagc ttttgcctcc aagccatctt 180

ctggacctca caagttcagg gagtgccttc ctttgatcct catcatcagg aacaggctca 240

agtatgctct gaactaccgt gaggtcattt ctatcctgat gcaacgccat gtacttggtg 300

atgccaaggt caggactgac acgacctacc ctgttgggtt atggatgtca tttccatcct 360

taagacattg gagaactaca ggctgctt 388

<210> 39658
 <211> 277
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-055-Q1-K1-H12

 <400> 39658

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 tcagccgtga caaaggatct ggagtcgatt cgcattgttac agaaggacat taagctgctt 120
 cttataactca acgtgaccac caatgaggct cacacaggga gagaacgcga tacaacact 180
 gtgcgaatcc ttgcggcatg catatcgctc tgaaactgtg ccaacgtcta cacaactgaa 240
 ggctttctccg gtcataagtt cacaatctta cgacctc 277

<210> 39659
 <211> 373
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-055-Q1-K1-H2

 <400> 39659

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 aggttaaagct cgctgtgctg cagttctaca aggtggacga cgccaccggc aaggtgaccc 120
 gcctccgcaa ggagtgtccc aacaccgagt gcggtgcggg tgtcttcatg gccaaaccact 180
 tcgaccgcca ctactgcggc aagtgcggcc tcacctacgt ctacaatcag aaggcgtaat 240
 cccatgcgcc gctttgcttc acccgccctac ctatcaagca ttcacctgtt gggttactcga 300
 tttgaatatc atttagatct gtttgagggtt ggaacataaa tgcagcagta gtttctggca 360
 tatttatattc ntt 373

<210> 39660
 <211> 382
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-055-Q1-K1-H4

 <400> 39660

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aaggtgcacg agatgcgtct gagatcttcc ggtacataga ccatgtccga acatataccta 120
ccataatggt tggaggaatt gagggctctc aagtctgcac tgtggccttt cagcgggtgt 180
gactgaaagc tgaggcacac atagttcttg gcctgacgtg tcacgttggg tccagaagaa 240
atggataaaa aattttgtgc ttcgcctgtg ggactgttcc taccgtatta aggaacagtc 300
caaactgtgt cttcttctgt tgtagctca tctatccagg atggctgtgt aattttagat 360
ggaccagact atgagacgaa tc 382

<210> 39661
<211> 190
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H6

<400> 39661

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aaggtgcacg agatgcgtct gagatcttac ggatcataga ccatgtccga acatataccta 120
ccataatggt tggaggaatt gaagtctctg aagcttgcac tgttgccctt tagctattgt 180
tacttaaagc 190

<210> 39662
<211> 372
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H7

<400> 39662

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ctcgatacca agggagggtca gtctgggtgc tggcctacat tgctttttgt aacatccctg 120
gccgtgctt gggctcctta gcttccatca accttccgga aaaggccaag gattccgttc 180
cagcttaatt gatccatact aatataaggt aataccaata ccataatgca caatcctttg 240
agcttccaaa ggcaattttt cccgggtcgg cacaagttcc ggggaccgga ttaataacgg 300
ttattaacaa accttggggg cccctggatt aaccggtacc tttgaaattg gaatggaatt 360

tacaccaaata

372

<210> 39663
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H8

<400> 39663

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gccgccgcgc ccgggttctc gatcgggcta ctcccttccc ttcacttccc ttccttacct 120
gccgccgcgc cacacggtgc acgtggatgg gctgcaaggg gtccaagcac gcgctgcacg 180
ggggctgtgg attggcggcg cgagcgccgg agccgcagag tcgctcgggc cgactggcgc 240
cgcggcactc cgtggtcgcg ctgcggtcgt ccacgctcgg aacgctcagc ctgcaccgcg 300
ccgtggcggc cgtcgcgga gcgggcctct ctttcgacgc tgcagcaaca ggaggaggag 360
gaggaggagg a 371

<210> 39664
<211> 237
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-H9

<400> 39664

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tctgtctcat tgtgaccacc gatgtggcgc atgcggcgag ggaatgcgag aaggacagcg 180
agcgattcct tgggtgcatgc atggcgtctg acaactgcgc caacgtgtgc cgcggtg 237

<210> 39665
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-A11

<400> 39665

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 ggtggttgta gtggaccggc tattccacaa caaggtatac aaccgctacg tcaagcgcac 180
 ctacaagttc atggcacacg acgatgacaa cacctgcaac attggcgacc gcgttttggt 240
 ggatacttct aggcccttga tcatacacac gcactggggtt gttgctgaaa ttctccgcac 300
 agcttaggtg tacgtttcac cagctgtaac agctgttcag tgaacgttgg agcaaatttt 360
 aacaagcttg tggtgctacc aaatgatcca tt 392

<210> 39666

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-A12

<400> 39666

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 cccaacatca tcaccaacta caacggccag tggetcatcg ttagggccac ctggtactgt 180
 cagtccaacc gtgcctgaac tcctgacaac cgcttttcta tgctggatca agaacgtgaa 240
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<210> 39667

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-056-Q1-K1-A2

<400> 39667

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 gctcgcctac gtgcctagac ggtgaggcag cgacatcagg acgcccgtgc gcacgcgtgc 180
 ctgcacggcg gctgtgcgcc ctcacgccg cttgccgaac ggcgtggcgg tggtgccatc 240

ctgcggggcg gcgtgggtgt cgcattgcta ttccgcccgc ggctgggcgg tcgtgcccatt 300
gagtcggatc cacgtggctg cgcgcacgcg ctactgagct gcaaggcgat ggcgcccgc 360
cgcaactctg gcttggtagt ggctgccagc ccacaacacc agagaggcgg tggctctattc 420
ctgcttcgtc gt 432

<210> 39668
<211> 404
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-055-Q1-K1-G6
<400> 39668

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ggtcctccca aggttcccc gggtgaagaac atcacagcca actatggtag tgattggcta 180
gatgccaaagg caacatggta tggcaagcca acagggtccg gcccgacga caatggtggc 240
ggatgtgggt acaaggacgt gaacaaggcc cctttcaaca gcatgggcgc atgtggcaac 300
gtccacatct tcaaggatg tctaggctgt ggatcctgct tcgagatcaa gtgcgacaag 360
ccagcgtagt gctctggcaa gctcgtggtg gtgtacatta caga 404

<210> 39669
<211> 194
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-056-Q1-K1-A3
<400> 39669

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tgctgttgt atgccgcaaa tctacttttt ttcttggcaa cgtctcgttt cgcacgatcc 120
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaatgg aaaa 194

<210> 39670
<211> 192

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-055-Q1-K1-E8

 <400> 39670

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 cctgcaggcg ctgtgcatga agcgggtgcgc ccgggagacg ggcgaggtgg ggccgttcgt 180
 tctgtgggtg ct 192

<210> 39671
 <211> 177
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-055-Q1-K1-F10

 <400> 39671

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 aacaacagcc atctcgcgaa aataatgaag agccgcagcc tggcatcatc ggccgagctc 120
 ttggtgctag ccctcgcgct agtggcggcc accggctcac aggtagcagc tgcaaag 177

<210> 39672
 <211> 75
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-055-Q1-K1-F11

 <400> 39672

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 gatttacctc aagcc 75

<210> 39673
 <211> 223
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-055-Q1-K1-F12

 <400> 39673

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taaattataa gagatggata tgctagataa caaatactag gctagcttat gtatcaacgc 180
actcattata taattgacat atgctagtag atgtctcatt ttt 223

<210> 39674
<211> 309
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F2

<400> 39674

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actttgctct ttttgacgat tttatttcgt cgagcagcac aggcattgat tagtttagact 180
ggatgggtcag aacacgaggt gaaaacgggtg ccttcgtcgc ctttagcgcg cgacggcggtt 240
tgatggctta cgcttctgca tcatgacctt ccaatagtag acgcccttta tcgtctcttt 300
taactcgtc 309

<210> 39675
<211> 393
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F4

<400> 39675

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tcgggcgtcg ccggtatggt gatccgcagg ggttcttcgt acgccgtcgc ggcacttctc 120
gcgctcgctt ctgtcgccgc cgtcgccggc gaggtattct tccaggagaa gttcgaagat 180
ggctgggaaa gtcggtgggt caagtccgag tggaaaaagg acgataacat ggctgggtgaa 240
tggaaccaca cctcggggaa atggaatgga gatgcagagg acaaagggtat tcaaacctcc 300
gaggactaca ggttctatgc catttcagct gaataccctg aattcagcaa caaggataag 360
accctgggtgc tgcagttctt tgggaagcac gag 393

<210> 39676
<211> 305
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F6

<400> 39676

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gcgctgagcc agtgagcgaa tacgtccaga gctgcgacat tgtcgccctc aacaagatct 120
aaatttgctt gtgatgggtg caatgggtgt tgggtgggcac tgtaccagcc taatttataa 180
ttttgcatga gcatcatcaa gagtctttct aagttatcat ttgtagtcat tgacatagaa 240
cgcactttct atatctgtgt aatatcatca acggatctat atcttgtagt caccattttt 300
agcta 305

<210> 39677
<211> 148
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F7

<400> 39677

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gctcctgctt gctgctggcg tggatagcgg tggcggcact ctttgtcgaa ggctcgtgtg 120
gcggcgcgct caccttcacg atcggcaa 148

<210> 39678
<211> 421
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F8

<400> 39678

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caccatcaag cagatttttag ctcagcaggt aacctctccg gtgcaatggg aaaccactgt 180

taagaatctt atgggcaagg ggcttgagaa aagttatgaa ctcggaacctg gaaaggttat 240
 agcaggtatt ctcaagagga tcaacaaagg cactagcatt gagaacatcg gggcttaaac 300
 gtctgggata tgaagaactc ttgatggaac caagttacac agcagaagat tgaacatgc 360
 cattattggg gaccatgttt tcacttagag gtaccggttt ttaccttag tgggtggaat 420
 t 421

<210> 39679
 <211> 254
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-F9

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 aacaagcgac atgggcgtct acacctttgt gtgccgcaac aacggcggcg agtggaccgc 120
 caagcagcac tccggcgaga tcgaggcttc cgccgctacc ccatacgagc tgcagcgccg 180
 cctcgtcgt ggcgcctccg cggccgactc tgcctacggc gtccagtcgt cctttttcat 240
 ggtcactccc agct 254

<210> 39680
 <211> 214
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G1

<400> 39680
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 gcgcgcaccc aggacaacac gggagcgccc atgcgcgacc acgatggcaa ggaggccaac 120
 gccttcgcct acgggcgctg caacgtgcac cccaaccgcg ccgtcgaccc gggcctcgtg 180
 tacgacgcca ggcccgacta ctactttaca ttcc 214

<210> 39681
 <211> 254
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G10

<400> 39681

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tactgtagct gctactctat ggaacactcc atccatcagc gctgacctcc gcattgctct 120
agataccatg cagtacatcg agtctgccgc caagatcaaa ggccggagaa ggaggacgaa 180
agggtagga gtcagctatg ggatgctctt catgctggcg agtggcagat gacgacaacc 240
ttggcaggag gaag 254

<210> 39682

<211> 197

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G11

<400> 39682

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catcccactc aatgcttgca gccatggcta gggggttgaa gaagcacttg aagaggctca 120
atgcgcccac gcattgcatg ctcgacaagc taggcggagc ttttactccc aaggcatctt 180
ctggacctga caaatgc 197

<210> 39683

<211> 133

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G12

<400> 39683

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aatcgaagcc gagatacgac ggtgggcttc accggcaccg gatcaagggg taaggggaag 120
aaggagcag cct 133

<210> 39684

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G2

<400> 39684

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tctcgccgcc ctgccccgag cgcaccgttt agaggccgcc aggtccggc acccccgccc 180
gcccgggctc gcctggggtc gggatgcct gctgccgcc gtcgtgctc ggagtcggcc 240
cacggctgcy ctcttctc cgcgactacg acgcgtcca gtccctcgcc ctgtactca 300
tctacctca gattggttgt gcactgatcg gatcacttgg ggcattgttc aatggggttc 360
ttgtgatcaa cctggtgatt ggtctattcg ctggtgttgc aattgagagc agtagccaga 420
gacttggtcg g 431
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<210> 39685

<211> 406

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G3

<400> 39685

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ctacgacgac atgggacaaa ggggtgatagt gtcacacaat tcttcacctg aactcgatgc 120
attcattaaa aaaatacaaa aatatcaaga acaaggaaac ccactatcag ctttaaggcag 180
acctgatcga gcacttgttg caaaaccatt ctgaggtata taaaattgat taatgtgcta 240
tttatttatt ttaatctact ttatgtaata agaacaaagt tgggeagtaa acatggttac 300
tgtttatttc caattcaatt gcctgcaatc aatgtgtgga gttaccgtgt cacaaaaggg 360
ggggataatt taataattaa atttttaagt ttttaaggaa ttttcc 406
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<210> 39686

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G4

<400> 39686

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tcacctctac aacaactaca cgcgagctg gggcatctac gccgtctgcg caggcgtaga 180
ggcccagatc gtgtcccagt gcaacatcta cgaggcaggt ggagggcccc caaagaagac 240
aactgtattc aagtacatgc cggagaaggc cggcgaccga gaggacgtgg tggcagggtc 300
gatcagctcg gaaggggacg ccttcctcaa tggcgcgctg ccctgcctga tcgataacct 360
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<210> 39687

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-E6

<400> 39687

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cggcctactg ccgcaggcgc tgggtaaggg taggggaggc aggggacacg gtggcgccgt 120
caaccgcag gtcgccggca tctgctctcg cacccttcc cggaggtgt gcacgttcac 180
cgtcggggcg cacgcgtcca agtaccgggt catcgacaac ctggccgtgc tgaacatgca 240
gggtggacgc ttcgccaagc gcaccgcgca agcgcgcaag cacgttgoga ggtcggcccc 300
caccatcccc ccgcagcaga cgcaagcgct cacgttctgc gacaccatgt acatgaacac 360
gc 362

<210> 39688

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-G5

<400> 39688

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ggggtcttcg tacgccgtcg cggcacttct cgcgtcgcgc tctgtcgccg ccgtcgagg 180

ggaggtcttc ttccaggaga agttcgaaga tggctgggaa agtcggtggg tcaagtccaa 240
 gtggaagaag gttgagaaca tggctggtga atggaaccac acttggggaa aatggaatgg 300
 aaatgccaaag gccaaaggtt ttcaaacctc cgaggattac aggttctatg ccatttcagc 360
 cgaataccct gagttcagca acaaggataa gaccctggtg 400

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 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-055-Q1-K1-D11

<400> 39689

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 aatgaagaga tcagtgaagca acctggccgt ctgcttgaag ttctcaattg tactgggtgc 180
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 aatcttaatc tttcaaccaa ottgaaggaa gtggattnga catgctccaa tcttttaacg 300
 ttaaacttga gcaattgtag ctcaattgag gtgctgaagc ttgattgccc aagattgacc 360
 aacctccaac ttttgcatg caccatgttg caagaggaag aattagaatc tgcaatatcc 420
 ctttggtggg c 431

<210> 39690
 <211> 356
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-055-Q1-K1-D12

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 aagtcgtggc tctcctccac gctcggcggc acctncacct gcgaggacgc ctgcaaggac 180
 ctgccaaga ccagcgacaa ggacgacgtc gtcaacttca gcctcgactt cgagaagctg 240

cagcgcgtca cgctcgacct catcaccgag gcgtccggca ccatgtccgc aggcacgcgc 300
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<210> 39691
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D3

<400> 39691

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 actgtttcac aggttcttac taatcaccag gaggataagg tgctcgacaa cactgaagtt 180
 cctcaggcat caatctatag aaacttgttg attgaagcag aagcttcagc ttgtaaactc 240
 aaatacgagc ttcaacatgc tctcctgaag ctcgagacag caaaaggcct caacgacaca 300
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 aaaccacaga accatgggaa aggaaccggt acatgcgc 398

<210> 39692
 <211> 203
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D4

<400> 39692

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 tctaagcgta ctctcatcga ttcacaccat catactattg aagattacca tcagggtactt 180
 cgactacagc attctacttg cta 203

<210> 39693
 <211> 193
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D6

<400> 39693

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aaattccaga aaagctatat catccttccc acagggaaag agctgtggga tgcacttgct 180
ggaaagtttg gag 193

<210> 39694

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D7

<400> 39694

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agcacgagca tcacaaccag ctatagctcg gactggctgt acactcatgc gactttgtat 180
gccaaagccga cggatgccag tctcgacgtt agccgctgct gttgtagctt caaggctcctg 240
aacaagccct cgttccatag catgtgctca tgc 273

<210> 39695

<211> 320

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-D8

<400> 39695

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caccagcaac gagtcgtgg agaatgcctt cgctctctac ggcgagatcc tcgactccaa 180
ggtcacacc gaccgggaga cggggaggtc ttgcggcttc ggcttcgtta ccttcttctt 240
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catcacggtt aaccaggccc 320

<210> 39696
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-055-Q1-K1-D9

 <400> 39696

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 tctcctcagt tacagtcgct gaatccagca cctcactcg cccctccaat cggtgcagcc 180
 ggagatgagc ccaagagAAC ggcagcagca atggctgaca agctggcatc tctgtcagcg 240
 ccggtgcatg tcttgagctc catcttctca tctttcgtct gcacacactg cgcttcggta 300
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<210> 39697
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-055-Q1-K1-E1

 <400> 39697

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 attctttggt gcaatatggt gtgtgtttgc ttatctacaa ggaaaatatg ataggcatat 180
 tacatgcccc taaatgcgta gttgaagact atgtgtttgc tcattttcat gcaactagaa 240
 tggttcatac tcatgaggat tctcatgcac gggatcacct catatgcgac aattaaatag 300
 attattcagt tagtaaatta cacataatct tttgatatgt tagtcatttt tactaaattg 360
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<210> 39698
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-055-Q1-K1-E10

 <400> 39698

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 ggcgaggatt gggcgtgagg tcacgaggat ttgaagaatc accctgggta ctggaatctc 120
 aagtgccagc cttacacttc acatgaactc ccacctttgg tgagttcatg catattattc 180
 cccacaactt gttgagtgat gaacatgtgt gagctcacc ttgctatatc acaccccccc 240
 ataagagaag aacaggtggt tcaagaggag ccacacattt aggagtttga ttcagtctag 300
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<210> 39699

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-E11

<400> 39699

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 aacaagagct ttgtttatat cgatgtgcat tccatcataa agggcacagt cgatgatctt 180
 ggtagcatgg aactaggctg gtacaccatt gtcgctcact aacactgcag gaagcgctctg 240
 agcgattatc tcagattgca tgtactgact gccatacata cacctggagc tgcattacct 300
 tggctcacga caggccctga taaccgctat gcatccctac ttaagtttgc cgtgctcttg 360
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<210> 39700

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-E12

<400> 39700

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 taatagtata tatgctgcgc ccggatgata tataaatatg tgcacaaat gcgtgctggca 180
 aacgcatgga atgtgcttgc ctagctagct aattgttggg ttttttttct ttacttttct 240

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<210> 39701
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-E2

<400> 39701

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 tacgccgacc cgcgcattgat gcaggctcac ctcatcagcc ccggcacgcc gcgctccatc 180
 ttcgactact tcaggggcct cttctacgac atgggcaacg accccgaggg cggctactac 240
 gccaggggcy ctgcgcgcgc ggtgtgggag aacttcaagg acaaccgcgt gttcgacatc 300
 tcgacggagc acccgctgac gtactacgag gacatgcagc gcgccatctt ctgcctgtgc 360
 ccgctgggggt gggcgc 376

<210> 39702
 <211> 348
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-E4

<400> 39702

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 gagaggaagg atgctgcgga gagcaccatg aatgcctaca aagctgctca ggacattgct 120
 cttgcagatc tggctccaac ccaccccatc aggcttgccc ttgctctcaa cttctcagtg 180
 ttctactacg agatcctgaa ctcccctgat cgcgcctgca accttgcaaa acaggccttc 240
 gatgaggcga tctctgagct agacagcctg ggagaggagt cctacaagga cagcactctg 300
 atcatgcagc ttctgcgcga caacttgacc ctatggactt tcgacacc 348

<210> 39703
 <211> 359

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-055-Q1-K1-D10

 <400> 39703

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 attgcgatga ctatggatca tgagccgccg caggagtgcg cgaccccggt gagcgtggag 180
 gaggcgtgcc ggggcgcgtc ggagacgcac gccggcgtgg cctacgacca ctgcatggcg 240
 tcgctgggcg ccgaccgcg cagcaaggag gccggcaaca agaacatgca cgcgctggcg 300
 gtgctggcca ccaggatggc catcgaccac gccgtcagca ccgagttcaa gatcgacga 359

<210> 39704
 <211> 354
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-055-Q1-K1-E5

 <400> 39704

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 attcttttgt gcaatatgat gtgtgtttgc ttatctacaa ggaaaatatg ataggcatat 180
 tacatgcccc taaatgcgta gatgaagact atgtgtttgc tcattttcat gcaactagaa 240
 tggttcatat tcattaggat tctcatgcac cgtatcacct catatgcgac acttacattg 300
 attattcaat tagttaatta cacataattt tttgatatga tagggattcc tact 354

<210> 39705
 <211> 349
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-055-Q1-K1-B4

 <400> 39705

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cggtacggtc ggcgccatgt ccaaggccag ggtctacgcc tgcatacaacg tgctgcgaca 180
 caacgcgtac tcggattacg aggcgctcac ccgagaacgg ggcgagcaag atgactatga 240
 agttgtcacg aacgtcacga gaggaaaata cagtgaagta tttgaaggca ttaatggtaa 300
 caataatgag acatgcatca tcaagatcct taagcctgtg aagaaaaag 349

<210> 39706
 <211> 180
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-055-Q1-K1-B7
 <400> 39706

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 cggtcgccga tacgagcgat ccatcgaccc atcggcagcg gcagcggcag cggagcgggt 120
 ggtggtctgc actgcactgc agccgcaagc ggcggcgcag tgcggaagga gtaggtgcgt 180

<210> 39707
 <211> 145
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-055-Q1-K1-B8
 <400> 39707

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 attcataagt atttaaacct tttgaaaata aaattgaaac cgttttcata attaaagggg 120
 ataacatcaa caaatTTTTTc ctaaa 145

<210> 39708
 <211> 296
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-055-Q1-K1-B9
 <400> 39708

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 tcaggggagg catgcagatc tttgtgaaaa ccctgaccgg caagactatc accctcgagg 120

tggagtccctc tgacaccatt gacaacgtca aggccaagat ccaggacaag gagggcatcc 180
 cttcagacca gcagcggctc atctttgctg ggaagcagct tgaggacggg cgcacgcttg 240
 ccgactacaa cattcagaag gagagcacc cttcacttggt gctgcgcctt aaggga 296

<210> 39709

<211> 417

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C1

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 agaggcaatc aaagctggct ggggcggcag tgacagccca gtgcataaat cacaatcaca 180
 catagaagga ttttgacgtt taatcttacg ttccctacggt gctattaata tatcaacaag 240
 gctggtagtc ggcgaccgct ttaagagtga agcctcagct ctagacttca tgacacttgt 300
 aagtagcaca tttttggaac atttggtttt tattctatag gtcattgagct tggattgaca 360
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<210> 39710

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C10

<400> 39710

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 actcattgcc gcgcctggag agagatgcga ttgagggaga ctgcggatgc ttttgtgcga 180
 ctgaagttgt gcttgcacag tggcgacatg cg 212

<210> 39711

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C11

<400> 39711

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cccttacggg aaagaatgtc cagggccaga acgtcaggga ggctgggctg atcaagggca 120
tccccaaactc ggccttctcc cggatctgcc tgtcgaacgt caagttcact ggtggcgcac 180
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catgcacaga actgacttca acgtcttggg ccagcttctg taaaaattcg ctttcatgct 300
ttggcagcta gcttaacctg ttgtaatcct ccgattttac caagatggat tccggtgcct 360
taaagcttgg gcaccaagg atttatcttc ccgaaaatta atttggtttt a 411

<210> 39712

<211> 196

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C12

<400> 39712

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attattaagt ggtgggggtc cattttggca cttgggctag ggttcatgcc ttgaaattaa 120
tttggttttc tacactgctg agatgtgcaa gcgttttacc caggggggtgc actttacggg 180
tttttttggg ttggac 196

<210> 39713

<211> 312

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C2

<400> 39713

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agactcgcag gctgagttgc tacgacaatt atcagacttc actcaatgcc atcatagcat 180
gaaagtgacg ctagtgatgc tgaccagcag cgagtgaata tagctgccga ggcaatatcg 240

taccgaccta ctactctgca tctacagcat ctggaacgcg tccaggattc aagggttgat 300
ccttctgcta tg 312

<210> 39714
<211> 344
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C3

<400> 39714

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aggccgtgct gcagcagcag ctgaacatgg acgtgtccct gtccaaggcg acgtcttccg 120
gggacgagaa caactacgtg agcgtggccg ccgcctacga gaaggccgcg ggcgcggtca 180
tcgcggcgac gccggacaac aagctccgcg ctatggcggt cgcgttcgac ggcgcggagg 240
cgccttacct gggccgggtgc cacgtcgtcg acaagccctt ctgagagacc tacgccaaga 300
cggagaacgc cttcagcgga accattgcct acggggacac gccc 344

<210> 39715
<211> 258
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C4

<400> 39715

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cgtccgctgc tgtaggcttt ccggcggcgg tcgtttgtgt gggtggcatc cgtggccatg 120
cctgtgctg cgtggccgcg cttgtcgtgt gcgtctgtcg tcgcgttggc gtcgtctctt 180
cgtgctcccc gtgtgttgtt gtaaaacaag aagatgtttt ctggtgtctt tggcggaata 240
acagatcgtc cgaacgac 258

<210> 39716
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C6

<400> 39716

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gcgaggggca ctgccattga ggacctgttc aagcctgaca gagtgttat cggtggccgg 120
gagaccctg agggcaggaa ggccgtccag gctctcaagg atgtgtacgc tcaactgggtt 180
cccaggaca ggatccttac caccaacctg tggctctgtg agctcttcaa gctcgtggc 240
aacgcgttcc tggcacagaa gatcttctct gtgaacgcca tcttcgcctt ctgcgaggcc 300
accggcgca atgtgactg 319

<210> 39717

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C8

<400> 39717

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tcgcaaggat tgcacctgct gactcgtctt ctaagcatgg tgaagttgac ctatcacagg 120
agtttgcatt aaccccattha gcaatgaact accagggcag tgatcatgat tctgtgcact 180
cccctggggg cgtctcatcg cccgataaag tctccacaaa ctgcgcagct ttagttccag 240
ttccagctgc agatcccaat gcaggagcta tagttccagc gaataagtct aagaggtcac 300
cagagcatgg gcaacgcaga atcaggcgcc cgttctctgt tgctgaagta gaagcacttg 360
tgctcgcaat cgaaaagctt ggaaccggaa ggtggcgaga tggttaaactt tgcgcgtttg 420
a 421

<210> 39718

<211> 428

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-C9

<400> 39718

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ctacgagagt cgagtgcag cgagcgagcg agcgagcgaa gccatggctc ttcgcaccct 120

ggcatcgaag aacgccctat ccttcgcgct cggtcgcgcg gcccgccgt cggcggcgtc 180
 cgcgaggggg gtgacgactg tcgcgctccc cgacctcttc tacgacttct gcgcgctgtg 240
 accggccatc tcgggggaga tcatgcgcct gcaacaccag aagcaccaag ccacctacgg 300
 ttgcaactac cacaaggggc ctgaacagct tgaccttcc ctcggcaagg gccaacgctt 360
 cgctgtcgtc cagcttcagg gcgcatcaa gttcaacggc tggggtcagt tgaaccattt 420
 aatctttt 428

<210> 39719
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-055-Q1-K1-D1
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 tccgcaggag catatgctgc caatttcaat gatgaagaat ggctggtcac accactgaag 180
 cgctcccgtg tcatgaatgg tattgaccat gaggatgaag agtggtagt taaggcgacg 240
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 cagcctaacg atgctttgga ttcggacttc cgcttcatac acgaattttc tgaacaagg 360
 gctgcagaac ccttgacat ctatgtcagt ga 392

<210> 39720
 <211> 381
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-055-Q1-K1-B3
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 caaaatgggc agaagatcac attccctggt gaagctgatg aagcgctga cactgtcact 120
 ggagatatca tctttgttct ccagcagaag gagcatcca agttcaagag aaagggcgat 180
 gacctcttct acgagcacac cctgacctg actgaatctc tgtgtggctt ccagtttgtt 240

<210> 39723
 <211> 366
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-054-Q1-K1-H9

 <400> 39723

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 cgtcggggctc gccgtgggct ccgaggagga ggaggacggc ggcggcaaaa agaagcccca 120
 cgtcaaccac ggcaagttta aggcggagcc gtggacggac gggcacgcga cgtactacgg 180
 cgggcgcgac gggttaactg acaccacgga cggcggcgcg tgcggctaca agggcgagct 240
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 caacga 366

<210> 39724
 <211> 358
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-055-Q1-K1-A1

 <400> 39724

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 ttcagattcg tgagggctctg cactacaacc cctacttccc tgggtgggtgcc atagccatgc 300
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<210> 39725
 <211> 319
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-055-Q1-K1-A2

<400> 39725

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cgctgcttgg ctccctagct ttcattcacct tccggaaaaa gtccaggaat ccgttgcgag 180

cctaattggat cataacttata ttatgggtatt acaattacat catgccacat cctctgagct 240

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catcaaacat ttgggggcc 319

<210> 39726

<211> 369

<212> DNA

<213> Zea mays

<223> unsure at all n locations

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<400> 39726

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caccccgagg gccgatagcc tgctctgcac tgccaaggtc ccatgcaccg gcgtcaccat 180

ggatgacgtc aacgtcgagt atagcggcac caacaacaag accatggcta tatgcacgaa 240

cgccaagggc agcaccaagg gttgcctcaa ggagcttgca tgcttctaga cctnccatcg 300

actgacccat ctctgtagtt ataatttatc tctcgacctt gcattgcccc ttagatgcta 360

ttcattggt 369

<210> 39727

<211> 103

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-A4

<400> 39727

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gctgcacggg tctcgtcttt ccgataccag ctatgctgct gct 103

<210> 39728
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-055-Q1-K1-A5

 <400> 39728

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 caagtgagat ttcgttctag gcatagtagt tgttgcaagc aatctgaata caggaagatg 180
 agatcaggcc aattttgatt acaacatgac tactcttgca aatagaatgt tgatattagt 240
 aaactattgt atgttatgca aggatcaaatt attgtaacgc agcacctgaa gttgcctaca 300
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 taatattttt ttttgaaaac agcatatg 388

<210> 39729
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-055-Q1-K1-A7

 <400> 39729

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 cggcagtcag cagccgtcgt tccaccagga cggcagcgcg gcggctttcg gtgacatcgt 180
 ctctctcgc ctgcgcgcac tgccaaccgc cagaacgcag gcggagctac attcgaacca 240
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<210> 39730
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-A8

<400> 39730

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ttatggactt tccaggctca gttatgctgc tgggacagaa gatctggctc cagattcact 120
atcaaattca acgggtctct ttttacagaa aactaatata attagggatt atttgagga 180
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cgatatagtg acgaatgcac tgattcatgc 330

<210> 39731

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-A9

<400> 39731

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caaagatgtt ggttactgcc aaggaatgag tgatttgtgc tcaccaatga tagttctact 180
aaacgatgaa gcagatgcat tttgggtgctt tgagaaattg atgcgtatat tgcgaggaaa 240
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tattcaggtt cttgacccta agctacatga ccacctaaaa actcttgggtg gaggtgacta 360
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<210> 39732

<211> 254

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B1

<400> 39732

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ttggccgtaa tggacttcta ggagctgcac atactggcct agcagatggt gaagcacgag 120

gagccggaga ggcgcgagcaa gatgcttggc tgcattgcttg tagaggaacc ggacatccag 180
gcaatgctgc atctcgcta cggcaactgc tcacaggtac accccaagat cagctacgct 240
aaggccaatc tgga 254

<210> 39733
<211> 167
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B11

<400> 39733

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caacaggcgc tgagtgccgg atggagagag ggcctaaatt tggcatg 167

<210> 39734
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-055-Q1-K1-B12

<400> 39734

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ccaccatctc cacacccaag gttgcacctg agaccactgc catccacatt gaggttgagg 180
cgaaacaggc agtagttgag aaggtggagg aggacaagga ggaggcacta acagtggcgg 240
cgaaacaaga gccagcattc accatcgagc ctgaacagat tgc 283

<210> 39735
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-H4

<400> 39735

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ccgttcgggtc cgacaggggtc caccaccacc accgccgctc cgaggcgctcg tgtccggcaa 120
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 tcgtgcaggt ccgggagcgg gaccagggcc cgctgtcgac ggggcaccag cacctgcacc 240
 accatcacca ccagctgcgg cggtcggcgg cgttcccacc ccgccgaccg gggccggggc 300
 gccgaccttc ttaacgctgc gaaagcgacc tcaacatcag ggagcacc 348

<210> 39736
 <211> 257
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G10

<400> 39736

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 ggagcgtacg aaccgatgca ctacctcatg agagatgaag ataatcacat acttaaggag 180
 aagcactacg aggctgtacg tcaggtttaa aaacaagtcc atgaaggtaa ccagacagtt 240
 gtggtgcttg gcacaca 257

<210> 39737
 <211> 297
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G11

<400> 39737

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 catttgcggt cctctcacat gtacgtact attcttccgg cggctcacat tcaaccctaa 180
 tcgtttcact aggacttgat acacgtattc ttacgcttga ttgccgttat gcggacaacg 240
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<210> 39738
 <211> 333
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G12

<400> 39738

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cagttgcgaa ggggttaagtg caagtacgag tccaagggtca ccttccacct tgaaaagggg 120

tgcgccccca actacctggc gctgctggtc aagtacgtcg atggcgacgg tgacattgtg 180

gcagtggacg tcaaggagaa gggctctgac acgtacgagc ccctaaagca ctgctggggc 240

gccatctgga ggaaggacag cgacaaaccg cttaaaggac ccctcaccgt acgacttact 300

accgagggag gcaccaagtc cgtctacgac gat 333

<210> 39739

<211> 461

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G2

<400> 39739

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atggtccgtc tgaccgcgag catgatgcct gggaagggtc tcggtgctgc cataggtgga 120

gctaccctct cagaaggtaa atcaaaagta caagagcgcc agcgggtccaa gctatcagaa 180

gaggctgtgg aggaagctga agacgccgtc tctgcaaagc gcctctcgga gcttgaggag 240

aaggtcattg cactcctgac aaaaccgca tcaatgcctg ctgataagga ggaggttctg 300

caggctgctg tctcccgct tagtgcactg gaagaggagc ttgcagctac aaagaagacc 360

ttgcaggaga ctcttgagcg tcagttggag atcgttgcat acattgagaa gaagaagaaa 420

agcaagcggt tctttcggtg gtaggagcaa acagcagtga a 461

<210> 39740

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G3

<400> 39740

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277

<210> 39743

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-G9

<400> 39743

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gtcaatctct tagttgcaac tccaggcagg cttctggatc atctgcgaaa tactaaaagt 120

ttcaactaca aacggctaca gtgccttata attgatgaag ctgatcgcat acttgagcaa 180

aattttgaag aggatatgaa acaaataattt aaacgactcc ctcaggatag gcaaacagtt 240

cttttttctg ccacacagaa tcaaaagggt gttgaatttg cgaattttac gtttgggcaa 300

aatgaagaaa gacaaaagaa acttggttat gttggagtcg atgattctaa attaaagcct 360

actgttgagg gcttgcagca aggttacttg gtcattccta agcagaaaag ggttc 415

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<211> 258

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-H10

<400> 39744

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ctgatcgtgg tgtcacggaa ggactcgtg caggcgttca agaagccatg ggcgcacgag 180

cacgagcccc tggcaaccct gctggaggcc gtgcagtccc tgaagccgac ggtgctgac 240

ggcacctcgg gcaagggc 258

<210> 39745

<211> 347

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-H11

gaaaaagaga tcataactga tcctagtact ccaaagccta atccaaatcc gttcagttat 300
gaacatcagg cttaaaccga tcaccatttc gaaatggttg atggccgtat tcatgtgtac 360
cccaataaag attctaaaga aagactctat ccaggtgccg atgcaactac cttctttact 420
gaaatgcact acgtnccttg tggggtggt gctggggata 460

<210> 39748
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-F9

<400> 39748

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ggcgcgacaa caaaaagtga aaccgactta aagatgaaaa ggctatntag acctcgacag 180
attactatag aattattacc aagtgtaaag ggcataaatg taattttgta tgggttgtgt 240
tccgtgccta taaatatgtg atctagtcct ttgtacttgt tatgctgact t 291

<210> 39749
<211> 367
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-054-Q1-K1-E12

<400> 39749

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tcctgctcat tgtgtccacc gatatggcac aggcaaggga atgcgagaag tacagtgagc 180
gatttggttg ggcatacatg atgcagaca actgcgcaa tgtgtgccgc ggtgagggct 240
tcttgcccg caggtgcagc accttccgcc gncgtgcat ctgcactagg cagtgtctaaa 300
caagatcgct cgatcgctcg ccatacatcg acaacctatt cttaataacg gtcattatct 360
cggtctt 367

<210> 39750
 <211> 469
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E2

<400> 39750

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agggatccaa gcctggccac ctgacacctc cccccaatgt tgcaaccata tccgacgtgg 180
agatcaaaga gcacgggggc gatgacttct cctttacgct caaggagggc ccgaccggca 240
cctggacgct cgacaccaag gccccgctca agtaccacct ttgcatccgc tttgctgtca 300
agtcgggtgg ctaccgcacg gctgacgacg tcattccgcg tgatttcaaa gccggcacca 360
cctattagac cacacttagg atgtaatcaa gctttgatga tgaattatat ttcaaaagag 420
cttacctggg gctcatggta gcaagaacat attttttcta tgggtattt 469
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<210> 39751
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E3

<400> 39751

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gctcttgtga tagcattgaa gctgaccttt tcaggaacga accagcttat ttaccacag 120
acatgggctt ttagtctggc tgtcatctca tgtatcatta cccaaatgaa ttacttgaac 180
aaggcacttg acacgtttta tacagcagtt gtgtcaccca tttattatac catgttcaca 240
tctttaacta tcttggcacg tgtcatcatg gtcaagggca ctaaatagtg attgagccac 300
tgtttcaaat tcaccttcaa atgggggactt ccttggattg catt 344
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<210> 39752
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E5

<400> 39752

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gaaaatattg ggcatcgact ctgagaagaa gaaagaagag aggaagcaga aggagcgagg 120
agagaaggag cgagctagca gagcacaaaa catggcggca aactcgatcc gctgggtcat 180
ggggcccacc ggaacagtta ttctgattcc acacgcagta ggctcccca gcatcttcga 240
ctccaagcca cacagctatc ctctccacg ggagaaatgc gctgggcat cgtgcacgaa 300
cgattacaag tacaggcact ccaagctgaa cctccccctc tgcagcctca agtgctacaa 360
ggccgtccaa ggaaatgctt gatagggtc acggaacata atggtgggga ctggggagtt 420
tgtgtgact ccattggcat gccatctatg gctggaaat 459

<210> 39753

<211> 341

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E6

<400> 39753

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atgcgggagg ctgttgaatt acccttgact catcatgagt tgtgcaagca gattgggtatt 120
gatgctgcaa gaggggtgct tatgtatggt actaccggtat ctggcaagac catgcttgcc 180
aaagcagatg cacatcatat cactgctgct tttatcaggg tcgaaagtgc atagtctgta 240
caaaagtact tgggtgaggg ccctagaatg gtgcatgacg agtgtcgatt ggccaaggac 300
aatgccccag caatcatctt cattgatgag gttgatgcta t 341

<210> 39754

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E7

<400> 39754

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tgtgcgagat cgagggccac cacctgacct ccgctgccat agtctggcac gacggcgccg 120
 cttgggcccc gagcaccgca ttccacaga tgaagacaga ggagatgacc aacatcatga 180
 atgacttoga cgagcccggg ttccttgccc cgaccggcct ctctctcggc cccaccaagt 240
 acatgggtcat ccaaggcgag cccggcgctg tcatccgcgg gaagaaggga tctggatgca 300
 taactttga 309

<210> 39755
 <211> 422
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-054-Q1-K1-E9

<400> 39755

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 gcgcccacca agtacaagtg cccttcttgt cgcacgcctt attgctctgt cacatgcttt 180
 aaaaagcaca aagaggaatc ttgtcaaaag atattgcacg aggaagaaat tagcaagtca 240
 gcattgcagg aggaagttac actgcacacc acatgcactg cagaatctcc aaatacagcg 300
 tgccctacaa aagctcttga agttgaggac ctaagctggc ttgttgacaa caatagacta 360
 aggtccttag cggaactgaa agggatccaa gacgctctca nggatcctga actgcagaga 420
 at 422

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 <211> 255
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-054-Q1-K1-F10

<400> 39756

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 ctgaccgtgc ttgcaagctt gcaaagcaag cctttgatga ggcaatctcc gagctagaca 180

gcctgagaga ggagtcctac agtgacagca ctctgatcat gcagctnctg cgtgacaact 240
ggacctatgg acttt 255

<210> 39757
<211> 349
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-054-Q1-K1-F11
<400> 39757

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gactgcatcc actggtgcct nccgggactc cccgacacct ggaaccact 349

<210> 39758
<211> 350
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-054-Q1-K1-F12
<400> 39758

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catcttcaag gatggtctgg gttgtgggtc ctgctttgag atcaagtgcg ataagcctgt 300
ggagtgtccc ggcaagcccg tgggtgtgca cattacggac atgaactatg 350

<210> 39759
<211> 392
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-F2

<400> 39759

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aaatttgata ccactcggtg aagtcaacaa ctgggatgtg gacatgtgaa accaaaaaaaa 240
aaaaaaaaata aaaaaacaa acaaacaaaa aaataaaaaat aaataataaa aaacaataaa 300
aaaaaaaaat ataacaaaat tttatattat aaaataaagg taaaaaccct aacaaaaaaaa 360
aaaaggggg gcctttttaa aggatccaat tt 392

<210> 39760

<211> 281

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-F4

<400> 39760

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attagcattg gtaaataaat gctcgggtac aacgtgctaa atcctttgca tctggccaaa 180
tttgtaaata agcactgggt gatgcccata agtaaacaca tgatgctact gctgttaaac 240
taaatagtggc aaatttcata atgctaggta ttgttctcgg t 281

<210> 39761

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-F5

<400> 39761

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ggcggtcggg gagcatggtg ggagggggga ggcggggagg agcggccgcg gaggaggtga 180

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agcagcagga gccgccgcag aaggatgtct tctgggctcc cgcgccgctc accaccaagt 360
cctgggcaga cgtcggcgac gacgacgacc acgactact 399

<210> 39762
<211> 411
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-F7

<400> 39762

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ctaaagcatt gctagcactg aaagactact gaagtgttat ttcagagacc ggattcattc 180
taaaggaaga tgaagacaac ttggatgcac tgctattacg tggctcgtgcc tactattacc 240
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atttctaatt gaagaaagcg tatttcggct taaaaaatct tttgaagaag accaatagtg 360
cataatataa tgcttgctag ggtaagcttc ctgtgtctgc tgaggactac a 411

<210> 39763
<211> 356
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C2

<400> 39763

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tgaggcgctt aagaaggcga ggagcctggg gctgggagac caggatTTTT cggcggtcta 180
tgaggttgtg aagggcgcgg gtggttctgg atctggccag ccgtgataga aggaccattt 240
gtgagttgtg actgtgtag ccattttcca tgccgatttg caacatagcg acgtacgagt 300
acgtgtgtat tcaagatttg gaaccaggcc atacgttgca aaagataata ttaatc 356

<210> 39764
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C3

<400> 39764

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 ggggctgcgc gtgtggatgt cgtggagggc acgtccatag cgtccgccga cgcgctgac 180
 gcggcggtcg acgcgcccgc tcccgggtccc gactacgcct catccacaga ctcaccgtct 240
 gaggcgcctt acatgcagca gctcatatga ctagccgcgc acaacgcagt tattgtcatg 300
 atctatctat caaataaaaa gatcatatga ctcggttgat tctatggaat aactaatagt 360
 atatatgctg cgcccggatg atatataaag atatgcatca aacgcgtgag ggaaacgcat 420
 ggaatgtgc 429

<210> 39765
 <211> 307
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C6

<400> 39765

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 agcagaacca tacaccagtt acctgacagc cacactttat actacacacc gatgttgatg 180
 accgggtcag gaaccaggag gtgctggaca tctgctgtcg ctccatctac atcaggctgg 240
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 aggagct 307

<210> 39766
 <211> 454
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C7

<400> 39766

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gcatgctcat ctctacacc tccaacacct tccccaccga ctatgttccg acagtgtttg 180
ataacttcag tgccaacggt gtggttgatg gtaacactgt caacctcggc ctctgggaca 240
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ttcttctggc tttctcactg atcagtaagg ccagctatga gaatgtttcg aagaagtgga 360
tacctgaact gaagcattat gcacctggtg tgccaattat tctcgtaggg acaaagcttg 420
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<210> 39767

<211> 318

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C9

<400> 39767

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gcacacgac caggtgtacc cgcgggtcatg gacggcaatc atgctgacgt tcgacaacgc 180
gggcatgtgg agcgtgcatt ccaacatctg ggagcggtag tacctcgggtg agcagttcta 240
catcagcgtc gtcttgccgg cgcgatcact gcgcgacgag tacaacatgc ccgacaacgc 300
ccttcggtgc ggcattgg 318

<210> 39768

<211> 505

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-D1

<400> 39768

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gcgatgggtt tcatcatgga cttcgcgag aatctgatcc tccgtctgat ggaggacccg 120
gacaagcgcg accaggttcg gcgggagcat gtctacaaga tgaaggagcg gtgcgagcgc 180
actaaggcgg cgtggagcct ccctctgcgc ccctacggct tctggacctt cgaccgcttc 240
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<210> 39771

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-D3

<400> 39771

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ggaaactctg gttcggatca ccggtggcat gaagggtgaag gctgaccgtg acgagtcgtc 120
accttacgct gctatgcttg ctgctcaaga cgtcgcacag cgctgcaagg agcttggcat 180
tactgcactg cacattaagc ttcgtgccac cggaggcaac aagaccaaga cccccggacc 240
tggtgcccag tctgccctca gggcgcttgc tcgttctggg atgaaaatcg gacgcattga 300
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<210> 39772

<211> 130

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-D4

<400> 39772

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ggaaactgtg gttcggatca ccggtggcat gaagggtgtag gctgaccgtg acgagtcaac 120
accttacgct 130

<210> 39773

<211> 459

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-D5

<400> 39773

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gttatcatgt atacaagcgg aagtactggg cttcccaagg gtgtaatgat cacacatggc 180
aacatggtgg ccacaactgc agcagtcatt acaatagtcc caaaacttgg catgaatgat 240
gtttatctgg cttaccttcc attggctcat gtctttgaac tagcaggaga gactgtcatg 300
ctagcttctg gtactgccat tggatatggg tcaacattga ctatgactga tacatcgaac 360
aagattaaga aggggacaaa aggagatgtt tctgtactga atcctactct tataatttca 420
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<210> 39774

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-D9

<400> 39774

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caacgtcccc tcctcggggc ccctggcctc ctcgtcgctg tctctgctgc accagtcgtc 180
tccgtctgag agtgagactg agaccgacag tagcagcgga gaatcttcgt cgtcgtcgtc 240
gtcggaggag gagggaggcg gcgagaagga gaaggagaag gagcaggaga tggagaaggc 300
ggtcgcggcg gagaaggctg cccagcagga gctgctcaag tacgccaagg ggaaagggca 360
tcgtgtcacc gaccaacggc acggcgtggg acaagggcaa tcgccgggag ttcgtggacg 420
cccacaacga 430

<210> 39775

<211> 295

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-E10

<400> 39775

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gcgccgtcca agtacaagtg cccttcttgt cgcacgcctt attgctctgt cacatgctgt 180
aaaaagcaca gagaggaatc ttgtcaaaag atattgcacg atgaagaact tagcaaagga 240
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<210> 39776

<211> 384

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C12

<400> 39776

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gttccgggtc cggcgacgac gaccgccgcc gtcacacctat gcctatgcgt cgacctctcc 180
tgtgccgggg ctgacgacct gaacctcccc gactacgtca tccagggccg cgtgtactgc 240
gacacctgcc gcgccggggt cgtgaccaac gtcaccgagt acatcgcggg cgccaagggtg 300
aggctggagt gcaagcactt cggcaccggc aagctcgagc gcgccatcga cggggtcacc 360
gacgcgaccg gcacctacac catc 384

<210> 39777

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-A6

<400> 39777

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agcatgttct tccattctga atgttaatcg tgctcatcca tttgtattgt tggaccatcg 180

taagtatgtt tttccacaag gaacctttta cgggtgttag agtctgatta ttgtccttat 240
aatgcctttc ttaataagct gtaccaatgg cgcgtctcac attttgtaga actcgtggaa 300
attctcatgg agcaaagctc tatttgggat ctgatgtcga tgactaccaa ccccctttat 360
ccttggtttt acatacttta gtccatacta ttttctaaaa cattttacta ttgtcg 416

<210> 39778
<211> 425
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-054-Q1-K1-A7

<400> 39778

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acgtgtggat aacctggtca tcaccggcaa gggaaacctt gacgggcagg gccagccgt 120
gtggagcaag aactcctgca ccaagaagta cgactgcaag atcctttcca actcgtcgtt 180
gatggacttc gtgaacaacg gggaggtgtc cggggtcacg ctgctcaact acaagttctt 240
ccacatgaac atgtaccggt gcaaggacat gctgatcaag gacgtgaccg tgacggcgcc 300
cggggacagc cccaacacgg atggcatcca catgggcgac tcatccggga tcacgatcac 360
caacaccgtc attggcgctc gtgacgactg catctncatc gagcccggga cctccaaggt 420
gaaca 425

<210> 39779
<211> 201
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-A8

<400> 39779

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cgaaacaaag accaagagcc aaggaccggg aaaatacgac aggaaaacag gggcagcacc 120
cgagaacgaa accctcaccg gaacaggcca aaccgaagaa gcacgaacac cgaaaacaag 180
aaccacagca gaagaaaaca a 201

<210> 39780
 <211> 288
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-054-Q1-K1-A9

 <400> 39780

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 acctccgacc ccaagctgcc ttccatagtg ttcagcgtgc acgacgcgag caccctttac 180
 cgcggtgctc aatggcgccg cgaaggatgt caatgactcg acccatacca gcgcatgat 240
 caccaacgat ggaattgcc acaaccctg acaaagagta cgcaacgt 288

<210> 39781
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-054-Q1-K1-B11

 <400> 39781

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 ttttctgctt caaaaaattt agtacttgta ttcatagtaa catttgatgc attaattgat 180
 acatttttat tttcatatat aggtttttga tcatctcggc atgttaaaga agaagaaatg 240
 catctagctg taaagaaaag gaaggcaa atcatcttat gcaattattt gtgtgctgtc 300
 ggcgggcgcg tatggctacc ggcaaagaac tacctgatcc ccatggacgg agctggaacc 360
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<210> 39782
 <211> 385
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-054-Q1-K1-B2

 <400> 39782

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 gaacttcggc tacgcggggc cggccagggtg caggcgctga cagctgccgc gtgcctggca 180
 cttggcctgg gtggccctgc cgtcgctcc gacgttgctt tctgccgttt ggccagggca 240
 tggctatccg tccaccacac gggcgacggt cacgccgtac gtgggtccgt cacatncacg 300
 gcttctcccg cgccgtctgg cgtacgtggg gaccgtccaa gatgtcgtac gctgcgggag 360
 tggcggcgac gttcttgat ggtct 385

<210> 39783
 <211> 303
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-B3

<400> 39783

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 gaacatttgc tactcagggc cgtccaggag catgagcgga cagctgacgc gtgcctgaca 180
 cttggcctgt gtggccctga cgtcgctac gacgttcact tctgccgcat ggccagagca 240
 tggctatccg tccaccacac gggctacggt cacgccgtac gtgggtacgc cacatacacg 300
 gct 303

<210> 39784
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-B4

<400> 39784

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 agttgcaaag attgaagagc ttttccgtca agcagatata aatagtgatg gcatagttga 180
 catagatgaa ctggcagccc tactggctgc tcaacaagaa gaagaaccac ttataagtaa 240

ctgccctgtc tgtggtgaag atcttggaat atatgataac ataatgata tgatacatat 300
gacactttgc tttgatgagg gaactggtga tcagattatg actggaggga ttctaactga 360
ccaacaagca ttttaagggg ggatgttcaa gctcagtga tgggcaca 408

<210> 39785
<211> 489
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-B5

<400> 39785

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agaggcagca tgaggcacga gggacaggcg acgccggcga gcgacacccg aaagacttga 180
gcgtagaggc tgacgtgact gcacgagaca cgagcgggtg ctctagtgtc tactacagaa 240
actgacaacc accgaacggc gatggtggcg gcaaccgacc gcggcaacat ccaagacga 300
tgatcttctc cgatctggcg tatctgggac gtccttcgac taagaccacc tacgatctgg 360
aggcttcaga tgcagtagcc gaaccggagg ccttaggggtc gacatccaga gactgcctcc 420
tatcgaactg tgtttatgtc taccatgata atgcgcaatg cctactattt acactattta 480
tgcattcta 489

<210> 39786
<211> 456
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-B7

<400> 39786

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tgtgaagaaa acagggcagt cactcatcat tggcatctac gacgagccca tgactcccg 120
gcagtgaac ctggtggtgg aaaggctggg cgactacctg ctgcaacagg ggatgtaaca 180
acaaccctt cccctggaat gcatgttgat gatgttgctg gttccaactt cgttttcagt 240
aataataaca acaaagcgaa gaccctcta cctaccctat ttgcttgagc ggctcttgtc 300

cgcgccacaa gatacctatt gttgcgctgg gaatattcag ttacgatgac cgcgtttagt 360
 tcagtttttt ttattgtggg gttgggtcga tcatttgagc tgtacgtgaa tcggatggac 420
 aacagactcc aattactaag caaatatatt tcttct 456

<210> 39787

<211> 359

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C10

<400> 39787

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 ctgccggcgg cgagatccag gagctgcctg ccatggtgaa ggacagcgcc tactacgacg 180
 tcctaggggt cagcgtcgac ggcctcctcg ccgagatcaa gaaggcgtat tacatcaagg 240
 cgaagctggt gcatccggac aagaatcccg ggaaccctga cgccgcactc aagttccagg 300
 aacttgagga ggcctatcaa gttcttagtg atcctgggaa aaaggaggct tatggatag 359

<210> 39788

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-C11

<400> 39788

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 gccaccggc cgcgctcggc ccggcgctcc ccggtgacct tcagcctggg cgcgccgtcg 180
 ggctggcgcc cgcggtggc cttcagcttc ttccgccggg cgctgtacac gaccttcaga 240
 aacataaggc gcatgcagcc gcgcaggcga cgcgctctct ggtgcgacgt gcggtctcgc 300
 cgtctcggca gtgttgctt acctgacacg tcgacgacga ggggtgtccgg ctgcttcgtg 360
 ct 362

<210> 39789

<211> 114
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-053-Q1-K1-G7

 <400> 39789

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 aaagatctgt atggcgacat cgtcctctcc ggtgggtacca ctatgttccc tggc 114

<210> 39790
 <211> 205
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-053-Q1-K1-G8

 <400> 39790

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 ggcgtcggcc cgtcggagtg tcgtcaggtc cctgcacctt cccaagtccc cagcctggag 120
 ggtcggcgtg gacgagtggg tccgcgtgcc cacggggccg gacgtgttcg cgctgggcaa 180
 ctgcccgggt ttctgaagg gaacc 205

<210> 39791
 <211> 343
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-053-Q1-K1-G9

 <400> 39791

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 cgcggccgtg gcggcggcga gggccgatga cgccctgcgc cagcgcgccg gggggctcgt 180
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 tcaccaccag ctgcggcggg cggcggcgtt cccaccccgc cggccggggc cggggcgccg 300
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<210> 39792

<211> 274
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-053-Q1-K1-H1

 <400> 39792

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 cactcgctgg aattcgagca catcggctcg ctgcgccncc tggccgagtc gtcgcgcccc 180
 gggagcatgt ggcagagggc gtcaccagc gtgcgcgtcg tcattctttca tgccaagatc 240
 aacgtgcctc ttccctttgg gccggtcggc atca 274

<210> 39793
 <211> 403
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-053-Q1-K1-H11

 <400> 39793

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 cttgtttgta agcgcggaag catcactcag aaaacatcaa ataacgatgg ttaacaatc 180
 atcccagagt atgattggaa gttattctct gaggagtgga gtgcgacgcc tggaaaaggt 240
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 ggtgccagag agccctatgt cagaactgat ccttgaggtt gtg 403

<210> 39794
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-053-Q1-K1-H2

 <400> 39794

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cgctattcgt ggttggttcg tgcaccaccc cgctcacctt ccaggtcggc aagggctcca 120
agcccggcc a ttggtcctc accccaacg ttgccaccat ctctgacgtg gagatcaagg 180
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ttgacaccaa gaccccgctc aagtaccccc tctgcatccg ctctgctgtc aagtccggtg 300
gctaccgcat cgccgacgac gtcacccccg ccaatttcaa ggccggcacc acctacaaga 360
ccaccctcag catctgatta gcctcttatg acgaataata tttcaagag 409

<210> 39795

<211> 235

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-H3

<400> 39795

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ctcttagagt ttgggatgtg tttctttatg agggatttaa ggttgtattc caagttggat 180
tggctctatt gagactctgt cacgatgatt tagtcaaatt accttttgag aaact 235

<210> 39796

<211> 350

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-H4

<400> 39796

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gatgccggct ggccacgggc tgcgctcgcg gacgcgcgac ctcttcgcgc gcccttccg 120
caagaagggc tacatcccgc tcaccaccta ccttcgcacc tacaagatcg gcgattacgt 180
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caccggtcgc gtctggaacg tcaccaagcg cgccatcggc gtcgaggtca acaagcaggt 300
caatgggcgc atcatcagga agcgtatcca tgtccgtgtg gagcatgtgc 350

<210> 39797
 <211> 222
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-053-Q1-K1-H6

 <400> 39797

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 cgacgacttc aaggaggcct tcagcctctt cgacaaggac ggggatggct gcatgacgac 180
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<210> 39798
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-053-Q1-K1-H8

 <400> 39798

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 aggccaagaa catccaggac gacttctgct cgacgctgtg cgagggcaag aaggggacgg 180
 acctggctgt gtgcaaggag tcctgcgctc tctcccagca gtccaacctg gtgctgtacg 240
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 aggtctgcc aagaggagtgc gacaaggcgt acgttgtgaa ggcgggccgac gtcaccaaag 360
 cctgcaacgt cacctgcgcc aaggagaaga acccgcgctt taacgagaac tgcaagaagt 420
 cctggacccc 430

<210> 39799
 <211> 340
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-053-Q1-K1-H9

 <400> 39799

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 taccacttcg atttagcagg cacggcggtc ggcgccatgg ccaagaaggg cgatgaggag 180
 aagctgcgca aggcgggcat catcgacatg cagttccgaa gggttaagtg caagtacgac 240
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 aagtacgtcc actgcgacgg tgacattggt gcactggacg 340

<210> 39800
 <211> 396
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-A1

<400> 39800

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 accaccaccg caggagcgag atggagatga agaggatcct cttcgccgtc ctcgtcgtca 180
 tcgccgcctc ggccaccgca gtgctggcct ccaccgaggt cgccgcgcgc ggcgccccaa 240
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 ccgtcgactc tgagccctac gacagcagcg gagcgccgcg cctcatcgac gcaccgcgag 360
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<210> 39801
 <211> 442
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-054-Q1-K1-A2

<400> 39801

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 agcgacatgg tatggcaagc cgacgggtgc cgggtcccgac gataacggtg gcggctgctg 240
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cttcaaggat ggtctgggtt gtgggtcctg cttcgagatc aagtgcgata agcctgtgga 360
 gtgcttcggc aagcccgtagg tgggtgcacat tacggacatg aactattagc ctatcgcggc 420
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 ggaccttggg attgcgactt tatttgaggt tgagctttat gcatgggtct gcgtaggcga 360
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 aag 423

<210> 39803
 <211> 334
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-054-Q1-K1-A4
 <400> 39803

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 gagccgatgg caagcccaga gccaggcccc gtcgaagagg acaacgcaga catgaacgcg 180
 accaaggccc ttccagcgcc cgaggagcct gcggcggctg ccgcgcaaga ggaaagcaca 240
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<210> 39804
<211> 101
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E7

<400> 39804

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acaagggtcat agatttgatg acaccgtaat ctttttgaac c 101

<210> 39805
<211> 291
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E8

<400> 39805

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tatacgagag agatcgccat ttatatttga tcaagtatct ggctttctct ttgaaagggg 180
gctaaatgca gctgcaggat ccaaggaagt agaaccacca tttggctggc ctagactacc 240
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<210> 39806
<211> 245
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E9

<400> 39806

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agatggagat gatcaagagg atcctcatcg ccgcgctcct cgtagtcgcc gtctcggcca 180
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cggcg 245

<210> 39807
 <211> 386
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F1

<400> 39807

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 gattctgttg aaagcacaat aatggcctac aaggttgttc aggacattgc cctggctgac 180
 ctggcaccta cccatccgat aaggcttggg ctgctctta acttctcagt gttctattat 240
 gagattctga actccccaga caaagcttgc aaccttgcaa agcagggcgtt tgatgaagct 300
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F11

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 tgcggacatg gaggactacg ggttcgagta ctctgacgaa gagccggagg agcaggatgt 180
 cgacattgag aaccagtatt acaactccaa aggtttggtc gagacagacc cagaggggtgc 240
 acttgctggt ttgatcaag tggtcagtat ggagcctgaa aaggctgaat ggggatttaa 300
 agctcttaaa caaactgtca agctttacta taagctgggg aaatacaaag aaatgatgga 360
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<210> 39809
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 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F12

<400> 39809

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gacgaccttc gccgtcatct tatccgtcct cttctgtgcc gcggttgga ccgccgtcga 180
caacgacctc cccgactacg tcatccaggg ccgctgtctac tgcgacacct gccgcgccgg 240
gttcgtgacc aatgtcaccg agtacatcgc gggcgccaag gtgaggctgg agtgcaagca 300
cttcggcacc ggcaagctcg agcgtccat cgacggggtg accgacgca acggcacgta 360
cacgatcg 368

<210> 39810

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F3

<400> 39810

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atgaagtgtt tgttatttac gtgcatttgg aatgtttttt gattttctcat tattgatttt 180
agatattgaa aattcacata actaatataa taattattag tctaaaaata aatattttac 240
ttataaat 248

<210> 39811

<211> 416

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F4

<400> 39811

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agtgtctggc cacaaacagg atcatcactg ccaaggacca tgcctctgtc cagatcaaca 180

ttggccactt ggatgcgaat ggctgtatg atggtcactt cacaacgttt gctctctctg 240
 ggtttgtccg tgctcagggt gacgcagaca gcttcttgga caggcttggg caaaagaaga 300
 aggctgatat aaagcagtag attttacatc tagtttacca agatttggac accgccttaa 360
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<210> 39812

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F5

<400> 39812

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 tgggtgctgat gaaagctcac tgttgaattg tgtaccgaaa gatgactttg gacgtggtca 180
 tgcggatcct aaccttacct atgcacaaga gttgcttgaa cacatgggtc ttggaaagtc 240
 atactcaaat gttgag 256

<210> 39813

<211> 212

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F6

<400> 39813

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 ggtgctggtg gtgcgaggag tgaacctggc catttgaac cggttaaccc acagcagcga 120
 cccctacgtc ttcttcggcc acggaaagca taaagggaat tcaagtttaa aataccgtac 180
 gatcaacca aattggaaca aggagttaac ct 212

<210> 39814

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F8

<400> 39814

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acttggtgaa gatgaaatga tgggtgatcc tgcatactct attgctgtca tcatagagtt 180
tctacggagt gtcttaaagt cttggcttaa ggcttcttac aacctttatg 230

<210> 39815

<211> 173

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-F9

<400> 39815

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cgttgccgcc gtagtgctgg acaacaaagg cgctgacgcg gactcctgca ctgccatcca 120
tagcgtaaca ctaagcctag acgagaaaga caatatcaat ggggatgttc aca 173

<210> 39816

<211> 343

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G1

<400> 39816

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cgtacagctg cagatatatg ctaggtagta acaaggctga tattcactcg aacaagctat 180
tcaattgtac tgctgaggaa ccttcgactg gggagctttt caaaaggata cttatactgg 240
cactttcact gtgtatagtt taagtgcac tacctgcagt cgataagttg tgacgttcag 300
acatcccttg ctggtctatt gggtttcaga gatgtatgtg tca 343

<210> 39817

<211> 354

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G10

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ggcccagcat ggctacggcg acagctttctt gccctccgcc agatgcaccg gctgccagtt 180
cggcggcaac tccgccaccg agccgtacat cgtcggccac cacctttctt tcgcgcacgc 240
tgccgctgtc aagctgtacc gcagcaagtt caagggctgt caggccggcc agatcggcat 300
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<210> 39818

<211> 296

<212> DNA

<213> Zea mays

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attcttaata acgttcatta tctcgttctt atttatgacg aatgtcatgt atgttctggt 180
gactgtcatg tatattctga tgactgtcat gtatcttggt catgtatgct caaggttcat 240
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<210> 39819

<211> 256

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G2

<400> 39819

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ggtttctctc acgatcgact gcaccaagcc agtggaggac aagatcatgg aggtcgcctc 180
gctcgagaag ttcctgcagg agcgcaccaa ggtcgcgggc ggcaaggctg gcaacctcgg 240

cgactccgtc accatc

256

<210> 39820

<211> 351

<212> DNA

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<223> Clone ID: LIB3075-053-Q1-K1-G3

<400> 39820

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taatgaagag ccgcagcatg gcatcatcgg ccgcgctctt ggtgctagcc ctcgcgctag 120
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aggggacgga cctggtcgtg tgcaaggagt cctgcgcgct ctcccagcag tccaacctgg 300
tgctgtacgg caggatccag tgcaagggca agtgcaccga gcagaagggc a 351

<210> 39821

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G4

<400> 39821

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cgcgggcgtg gcggcgggcga gggccgatga cgccctgcgc cagcgcccgc gggggctcgt 180
gcacgtccgg gagcgggacc agggcccgt gtcgacgggg caccagcacc tgcaccacca 240
tcaccaccag ctgcggcggt cgggggcgtt cccaccccgt cgtccggggc cgggtgcgccg 300
gccttctcag cgctgcgaaa gcgacctcaa ca 332

<210> 39822

<211> 163

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E6

<400> 39822

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cagctgggggt gaggcgatgt gcgttgtcag ataaagctta gtcttggtga ctctactaat 120
ctgatatcaa ttggtaacca attggttaaa aaaaaataaa aaa 163

<210> 39823

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-G5

<400> 39823

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gacggcatcc acatcggcga cttcagcaac gtgaccatca gcagcaccac catcggcgtc 180
ggcgacgact gcattctacat cggacccggg agcaagatga tccgcatcca tggcgtcaag 240
tgcgggccag gccacggcat cagcgtcggc agcctgcggc gc 282

<210> 39824

<211> 324

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-C7

<400> 39824

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gacgactttg gccacaagga tagtttctct gaagtgtcct atgaatactg tgtaagggtg 180
gtcacgtggc tggagtgtga gggctatatt gagacaaact tcacgatgaa gtttcttaca 240
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cttatcgagg accctgtcag tctc 324

<210> 39825

<211> 211

<212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-053-Q1-K1-C8
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 cgaaccgggtg gtacgacctc cggctgggct c 211

<210> 39826
 <211> 158
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-053-Q1-K1-C9
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 ttaagcgcca ggtacatccg gcttcaacac cacaacat 158

<210> 39827
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 <212> DNA
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 <223> Clone ID: LIB3075-053-Q1-K1-D1
 <400> 39827
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 tagatctcaa gaaagagttc tgctgcaat 329

<210> 39828
 <211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-053-Q1-K1-D10

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 gtcctccgcc gctcctccgc cgcaccccat ctctcttcct cctccgaacg cgccgtctac 180
 ctctccctt tcccatggc ggcccatccc gtcttctttt ccacagcacc ttgccttcg 240
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<210> 39829
 <211> 332
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-053-Q1-K1-D11

 <400> 39829

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 gcccaatccg ccaggttctc cgcgggtgtg tctgacgct gttgaggccc ggcgtgtgcg 180
 ttgcatgcag gggatggcca cattcgagct ctaccggagg tccaccattg gcacctgct 240
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 ggtccttggt cagttcgaca agtccatgac tg 332

<210> 39830
 <211> 316
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-053-Q1-K1-D12

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gaggttctgc ctgggtggca aagtgacatt tcttctgttc gaagatacga tgaacttccc 180
caagctgccc gcctttatgt ggagaggata gaagaacttg ttggtgttcc cgtgcactac 240
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cttggttggg cggaat 316

<210> 39831

<211> 242

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D2

<400> 39831

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cgagttgcgc catggctgtt gcgcgcccgc gcgttcgccg gggccacgcg cagggccacc 180
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cg 242

<210> 39832

<211> 371

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D3

<400> 39832

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ttttgaaggt ccggttggtt aggggcataa acctggctta ccgacacaca gagaggcaga 180
gacctgtatg tcgctataac acttggcaag aagacactta acacgagcgt gaaaaagata 240
tctgtgaacc ctatctggca cggggagcta actttgaccg tcacagatcc cactctagct 300
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<210> 39833
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D4

<400> 39833

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cgtatgccga cccggtggcg atgctcgagt accgggaaca cctggtgcga tagaagtgga 180
tccagatcga gaccgccagg atcatccggg agcgccttcg ttggtgctac 230

<210> 39834
<211> 371
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D5

<400> 39834

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gttcgacgac gcgaagccag aaggcctcgt ggtcggagag gctgacgcat agagggacta 180
tggaacggg ggtacccgcc tacaacggcg ctcggggcat aatactggga caggcgtgat 240
cataggggct cactagaggc gcgtgcatcg gtccgtgggg ccaaacacgg tctgtgcgga 300
agctattgct ctctgggatc ccaaagaacc ggcgtccgat cattctgcgt tggcagcact 360
tttcctatca g 371

<210> 39835
<211> 102
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D6

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102

<210> 39836

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D7

<400> 39836

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tttctgaagt agttgcagct gacgagtttg agtacaagga tccagttgat ggctctgtgt 180
ccaagcacca gggcatccga tacctcttcg gagatggttc acgactgggtg ttccgtctat 240
ccggaaccgg ttctgttggg gccaccatcc gtgtctacat cgagcaatac gagaaggatt 300
ccttcaagac cggcagggat tcacaggagg cccttgctcc actggttgat gttgcgctca 360
agctcttcaa gatgcaagag tacactggcc gctctgcccc caccctatc acataaattt 420
t 421

<210> 39837

<211> 302

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-D9

<400> 39837

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atatccaccg gggtcaccat gagttcactg cgccaatagg attcgcagct ccatatgcac 180
actgggctta ggtgctgata ctctgcatcc cctacttcgg tgggccagtc attgttgcag 240
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at 302

<210> 39838

<211> 427

<212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-053-Q1-K1-E1
 <400> 39838

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 aaagctgatg ggagtgaaat ggatctttct actatcacta gcgcttctcc aagctgccta 180
 ctaccgccgc atgaggtggt cagtcttgaa gtcccgaaag ctggctctgg atgtcgtcaa 240
 ctaaggacta tcattaccct ttttttattg aaatatgttg agccgttaag gagcattcaa 300
 aataatgagt tgggtggtgta caattttgcc actggggcta ggttccatgc ctagaaatta 360
 ttntgctntc tttactctgc tgagctgcaa aagcatttac caagggagta catttcacgg 420
 gttttttt 427

<210> 39839
 <211> 352
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-053-Q1-K1-E11
 <400> 39839

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 agcaagaact cctgcgtcaa gaagtacgac tgcaagatcc ttcccaactc gctggtgatg 180
 gacttcgtga acaacgggga ggtgtccggg atcacgctgc tcaactccaa gttcttccac 240
 atgaacatgt acaagtgcaa ggacatgctg atcaatgacg tcaatgtgac ggcgcccggg 300
 gacagcccca acacggacgg cattcacatg ggcgactcgt tcggggtcac ca 352

<210> 39840
 <211> 392
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-053-Q1-K1-E12

<400> 39840

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gagctggaga aggagtggcc caacgtggtg tcgtgcgagg acatcatctc ggtgagcgcc 120
cgcgactcgg tgaagctgtc gggagggccc gaatacgagg tgctcctggg gcggcgcgac 180
tcgtcgtgt ccaaccgga ggacggcgac aacctgccgg gcccgacat cgcggtgccc 240
aagtcacatg acgagttcga caagcagggc ttcaacacgg aggagatgat cgcgatgctg 300
ggcgggggcc acagcatcgg cgtctgcagg tgcttcttca tcgagaccga cgccgcgccc 360
atcgacgagg cgttcaagaa gaagatcagc ga 392

<210> 39841

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E2

<400> 39841

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gaaccagcag agcgagtacg ctccaggcct ggaggacacc ctcatcctga ccatgaaggg 120
catcgccgcc ggcattgcaga acaccggcta ggccaagatc ttcggtgtgc aaataacctg 180
tctcccatga gacgggtggac gatattgtga ggcctgtgag cagtttagtac actcggcgcc 240
ccagtgtgtt ctgggagggg atttttcaat gtgcagagcc ctttctcttt gtgtgccttg 300
gctgtagatg ccagggggga gcttaatggc ttgtgaagcc ctgatgcaaa ataaaagacg 360
aaactatggt ttttgggttaa ct 382

<210> 39842

<211> 219

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E3

<400> 39842

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gcaacatgcc gggcaaggct aggcattcaag caaccatct caagggggcg gctatcctgc 120

acaaccgcat tactaccatg gcaggattca accttacttt caaccccaac aaccatacgg 180
gggttcaatc cttcaacggg ccatgcctta ccaacaaca 219

<210> 39843
<211> 319
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E4

<400> 39843

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ctgccaggag ctcatcgtga gcagcgacaa gaccatcgac gggcgcgag cgcacgtgca 120
catcgtgggc gcgcagatca cgctgcagaa cgtgcgcaac gtgacccctc acaacctgca 180
cgtgcacgac gccgctgcgc acggcgcgcg cgcgatccgg gactcgagc accactgggg 240
cgtgcgcggc gagagcgacg gcgacggcgt ctacgtgatg ggggccagcg atatctggat 300
cgaccacctg tccatgagc 319

<210> 39844
<211> 105
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-E5

<400> 39844

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aagaagaact ttgttgatta aatacgtaac gattactggg gatat 105

<210> 39845
<211> 116
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-A4

<400> 39845

acggcgccca tgatacccggt gcgcatgggt gcgctccctc gcttttgtgt tgtccgctgg 60
ccacgagcca tacttcgccg gtgtgtcaga cggcttttgc caccgattaa ccctcc 116

<210> 39846
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-A5

<400> 39846

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gtcagcgccc ccagtatagg gtgccaccga acgtgtgggt tgggtcgttc cccacactag 120
acgtcgagtc gttcgcatct gatggcagcg ttcttgtcaa gtctcggaag agggaccctg 180
agctgcatta ctcccttggt ggctgcacct gtgcccctgg cttccagtac gaggattttg 240
aaatggccaa atttgaggac gtgagatcca tcgctcccaa ggctgaacct ttctcaagt 300
ttcttattcc ctctaccgat taactccaga gcagccttag atgattgtgg atgggggtctc 360
agcgactttc tatactgcat act 383

<210> 39847
<211> 230
<212> DNA
<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-053-Q1-K1-A8

<400> 39847

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atgctactag ttcatagtgg gcacttncag tagctatgca tcctaagttt caagtagatt 120
ctgaagtagt tgaatccggt ggcccttttg gtccaccatt tcgaagcgga tgattttgga 180
atctggaacc tttgaatggt tgccaaaatt ccgtttatgt ccttaactta 230

<210> 39848
<211> 366
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B10

<400> 39848

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acggcctgcg ctgcggaag cgcgacctct tcgcgcgccc ctcccgcaag aagggtaca 120
 tcccgctcac cacctacctc cgcacctaca agatcggcga ttacgtcgat gtcaaggtga 180
 acggcgccgt ccacaagggg atgccgcaca agttctacca cggccgcacc ggtcgcgtct 240
 ggaacgtcac caagcgcgcc atcggcgtcg aggtcaacaa gcaggtcaat gggcgcatca 300
 tcaggaagcg tatccatgtc cgtgtggagc atgtgcagcc gtcccgctgc acagaaaagt 360
 tccgcc 366

<210> 39849
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B11

<400> 39849

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 ttactactt ctgcggggtg tcacagtctt aagatcatgg tgtttttatg tctcaaacad 120
 ggtcgcaatt gtgacattag gtagatggga gatttttgac tgagttttcg tgttttgtga 180
 gcgaagtcag ggtaggaaat gatgtccgag agtgaagagc atggctcgct cctagacaag 240
 atcaacgaca agatcaacga gaagatccat gagtataagc actcgtcgtc gtcctcctcc 300
 tcttcggact cagacgatga caagaagccc aagaagtcta agaagaagaa gctttttgga 360
 agaaaacatc cattgcatca tg 382

<210> 39850
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B12

<400> 39850

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 acgtatagac tcgctcagcg cctgagctga acgccacgtc accccggcgc atgcatacat 120
 gcatgcatgc atggttcatt catttcaagg ggcttcgctt caagaagtgt ggagtgacta 180
 cattatgcca gagtcatat actctgaaaa tactcgagca ggcaggcatg aaaggctgca 240

atgcttgagc tgtaccgatg gagaacagac taaaattgag caagaaagat gagtcaccgc 300
ctgttgacaa gacaaaatac agaagcatta ttggaagcct gaggtatcta gtgaacacaa 360
ggccggatat agcctttgct agtgggattg tagcaaattc atggaagatc caagagcaaa 420
aca 423

<210> 39851
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B2

<400> 39851

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tcggcgctcg catccgagcg aacagagcca accgaccccg ttcccaaggc aatccgctcg 120
cgacgtacca ccaccaccgc aagagcgaga tggatatgaa aaggatcctc ttcggcgtag 180
tcgtcgtag 187

<210> 39852
<211> 384
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B3

<400> 39852

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ctcttctgca tcgtgcatgg ggagaaggaa gagtcaaagg gcatcgatgc gaaagcgctc 120
gggcctgggt ggctccttga catcaccaag ttggggcgct tcggcaatgg caagacagac 180
agcacgaagg ctgtgcagga ggcatgggca tcggcggtgc gcggcactgg gaagcagaca 240
atcctcatac ccaagggcga ctctcctgtc ggacaactca acttcacaag cccttgcaag 300
ggcgacgtga ccattcaagt ggatggcaat ctgctggcga ccacggacct aagccagtac 360
aaggaacatg gtaattggat cgag 384

<210> 39853
<211> 127

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-053-Q1-K1-B4

 <400> 39853

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 gggggccttg gcccgccggc cggggtttcg agccggggaa ccccgccgt tgccgacaat 120
 ttcatta 127

<210> 39854
 <211> 250
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-053-Q1-K1-B5

 <400> 39854

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 tctggatagc actgagcgag gatgcaactt gataaggtaa tgggctcaag tacgtcgtac 120
 ttggtgattg agtcgatctc aatactcatc accgttactc tgatagcctt tgccaatgcc 180
 tacatagcag acttgacat ggcaacgctg tacgctgaca cacttgacaca tactatgtga 240
 ccatagcctt 250

<210> 39855
 <211> 295
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-053-Q1-K1-B6

 <400> 39855

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 ttggcttctc tctcactccg aacatctcaa cttcttctct atcttgattc ttgcttcggg 120
 tccaaatcca ctctttgacc ttgctggtat tatgtgtggg caatttggtg tgcctttctg 180
 ggagttcttg tttgctactt tgattgggaa agccatcatc aagactcata ttcagacact 240
 atttatcgtg tccctgtgca acaatcagct cttgtatctt attgaaaagg agtta 295

<210> 39856
 <211> 324
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-B7

<400> 39856

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 gaagtcatca ctatgctcag gtcaaagcag gatatgagcc cagaaaacaa aatgagggtg 180
 ctaattatat atgcaatgga ttatccaaag aagtttgaag gtgacaaagg gaaaaagtcg 240
 atgcacttag cgaagcttcc acatgatgat atggatatat taaatggctt aggatacttg 300
 aatggttcaa atacaaaaaa atca 324

<210> 39857
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-C1

<400> 39857

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 atatgaaaga aaagtgagag caatgttggt taaaaccaa aatccataat aatgtgtggt 180
 catccgtgat atgttcttgc tctccctctt tttctttctg tttgatttcg atgtgttacc 240
 atgttcttag cctctaattg gatcaattct tgatatcaaa gactccaaaa ttatcggtt 299

<210> 39858
 <211> 421
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-C10

<400> 39858

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tcaacttcac tgggccatgc aaggggagca acatcgccat ccagctggat ggcaacctgc 180
 tgggatcaaa cgacctggac aagtacacgg cgagctggat cgaattgtct cacgttaaca 240
 acatcgggat caccggctcg ggcacgctgg acggccaggg gaccgccgtt tatagcaaga 300
 gcaagaccga caacgtgaag gcgatgccca acacactggt gctgtttcac gtgatcaacg 360
 ccactgtcgt cggaatcaaa ctacttaact tcaagttctt tcacattaac attgacaact 420
 t 421

<210> 39859
 <211> 179
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-C2

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 gcagctatgt tgatgatgat gctaaagaga agctccagtc cttttcaaata ttgactgggtg 120
 aagagagcta ccagagtcgc gacttggaaa aggccctaca acaggtcgca aagcacctg 179

<210> 39860
 <211> 368
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-A3

<400> 39860
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 tgatgagaac caggaagccg tcgacctggc ctgggtctcg ttctcttctt ggatggggccg 120
 gttctctgga tctgcttgat tatgtgccgc gtgatgatgt gtggagtcag gtcccatgaa 180
 taaaatagaa taaaataaaa tgttcagatt caggaacctat gcaaatggac tgggctgtac 240
 ggttctctgg atttgcttgt ccttctggtt atagttatct acctcagtgt ggtttcctta 300
 ttttctgtgg atggatgcat attgtggaat agccgtcaat ggcttttgac agtaagcaac 360
 gacatggc 368

<210> 39861
<211> 427
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-053-Q1-K1-C3

<400> 39861

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ttcgccgtca tcttatccgt cctcttctgt gccgcggtg gcaccgccgt cgacaacgac 180
ctccccgact acgtcatcca gggccgcgtc tactgcgaca cctgccgcgc cgggttcgtg 240
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accggcaagc tcgagcgctc catcgacggg gtgaccgacg cgaacggcac gtacacgac 360
gagctcaagg acagccacga ggaggacatc tgcgaggtgg tcttggtgga gagcccgcgc 420
aaggact 427

<210> 39862
<211> 399
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-052-Q1-K1-F7

<400> 39862

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gctgaccttg tcaggatcga cgcacctcc atgtgctcgc ccggttctc ctgcgactcc 120
gcctaccagg tcacctacat cgtgcgcggc agtggccgcg tccaggttgt tgggatcgac 180
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cccaacccaa tcttttagcca cttggcgggc cggacatcgg tgtggaggca atatctncgc 360
ggtctntgca gtcgtcgtaa caccacgccg gagatggag 399

<210> 39863
<211> 455
<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-052-Q1-K1-F8

<400> 39863

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tcgccggagg cgggtcccgat ggctcggcgg tcgtcttctt cgtcgtcggg gacctggcgg 120
tacctgaacc cggcgacta cctcaagcgg cccaagcgcc tggcgctcct cttcttcgtc 180
ttcgtcgcgg ccaccttcgc cttctgggac cgccagtcgc tcgtcagcga gtacgagtct 240
gagatttccc gattagaaga tgatataaat cggttgcatg accagctaag aaaggctgga 300
gttaatctgg atgaaaatcc agtagtaagc aataagaatt ccagaaaaga tcttgtagta 360
gaaattgatc ctgtcaataa tgaaagacgg gaaaaagtta aagaggcaat gctccatgct 420
nggaattctt atgttaagta tgccttggga atgga 455

<210> 39864

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-F9

<400> 39864

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tcgccggagg cgggtcccgat ggctcggcgg tcgtcttctt cgtcgtcggg gacctggcgg 120
tacctgaacc cggcgacta cctcaagcgg cccaagcgcc tggcgctcct cttcttcgtc 180
ttcgtcgcgg ccaccttcgc cttctgggac cgccagtcgc tcgtcagcga gtacgagtct 240
gagatttccc gattagaaga tgatataaat cggttgcatg accagctaag aaaggctgga 300
gttaatctgg atgaaaatcc cagtagtagc aataagaatt ccagaaaaga tcttgtagta 360
gaaattgatc ctgtcaataa ttgaaagacg gaaaaagtta aaagaagcaa tgcttcatgc 420
ttggaattct tatgttaagt atggctgggg gaatg 455

<210> 39865

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-G11

<400> 39865

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gcagataaac ctgttccaat gggcaaacia aaagaggggtg tggacaaaag aactgctagg 180
aagatgatcc gatctacgga aggctgtgca aagagcatta ctttcgagag gaacaacaaa 240
tcagacgatg tgcagcttca cgatctgccg aatgacatcc taggtagcat actatcacgg 300
ttgacattca gagaatcctc acagatgggc cttgtttctc atacctggcg gcggctgtgg 360
agaagctgtt gccggaaact ggtcttcacc agtgccacca tgttccaacc cggaaatagg 420
agcatcaaac atacaaggga ccaacttgcc atgaga 456

<210> 39866

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-G12

<400> 39866

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tggcgacggg atacagcagc atctctcccc tctatccccg acgcgacggc gccctgcagc 120
tgcagataaa cctgttccaa tgggcaaaca aaaagaggggt gtggacaaaa gaactgctag 180
gaagatgatc cgatctacgg aaggctgtgc aaagagcatt actttcgaga ggaacaacaa 240
atcagacgat gtgcagcttc acgatctgcc gaatgacatc ctaggtagca tactatcacg 300
gttgacattc agagaattct cacagatcgg ccttgtttct catacctggc ggcggtgtgg 360
gagaagctgt tgcctga 377

<210> 39867

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-G5

<400> 39867

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ctgctccggg tgccggccac ctcccaggag gacgagcttc tcctctccat ggccgagtc 120
gacctcgagg ataagctgaa cgagatccga aagaccaaca gccacctggt aatcatcggg 180
aagcccacgg ggcacaccaa ggaggagtac gacgctgagg tggaggacga cgatgcagac 240
aacgtcgagg agtctgacgg cgacgacttc taccaggaga ccggttgacc cacgtggctc 300
ccccgtgctt cgtcggcgtc cttgagcgtc gtcacccccg ctgtccagtc tgtatttcgc 360
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<210> 39868
<211> 453
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-G6

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cagggcgagt accaggcgga gcacgcggcg cagtgcgtca aggacaccgc cgcagccgcg 180
gccgacagtg cgcagctgca gcagcaccgc cccaccggca ccggttgagca ggtggcgag 240
acggggccagg gctggtggcg aggcgtcaag gacaccgtgg cgggcgcggc ggttggcgtc 300
acaaacaccg tggcggcggt ggccggcggt gtcacgaaca cggtcacggg cgccgtggcg 360
ggcgtcacga acacagtgac cggcgcggtg gcgggtgtca aggacaccgt gaccggcggt 420
cactgatega cgaccaaga atgcttcatg cat 453

<210> 39869
<211> 390
<212> DNA
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<223> Clone ID: LIB3075-052-Q1-K1-H1

<400> 39869
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gctatgtcgc cgctcggagcc gacgcgggag gagagcgtgt acatggccaa gctggcagag 180
caggcgggagc ggtacgagga gatggtcgag ttcattggagc gcgtcgcgcg ctccgccggc 240
ggcgccggcg gaggggagga gctctccgtg gaggagcgca acctgctgtc cgtcgcctac 300
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gaggagggcc gcgggaacga ggcgcacgcc 390

<210> 39870
<211> 278
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-H2

<400> 39870

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ttattgttga atttgctaaa ggagttcctc gtggttcttg tggttcacgt gagtacatgg 180
gaagaggacc tccaccagga acaggtcggt gttttaactg tggaatggat ggctactggg 240
caagggactg caaggtctgt gactggaaga acaaatgc 278

<210> 39871
<211> 354
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-H4

<400> 39871

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gcatgtcctc ctccgtccac gacgacgcct atgagacggc caagtgggag aagatcacct 180
acgcggggat cgtgacctgc accctcctgg cggcgtacaa cctgtccaag ggccaccccc 240
acttcgatga gccggcgggc taccctatc ttcacatccg caacaaggag ttcccatggg 300
gccctgatgg cttgggttag acgaaggacc accactgagc cctgattagc acac 354

<210> 39872
 <211> 460
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-052-Q1-K1-H8

 <400> 39872

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 ataatgcagc tgccccattg cttgcacagc agttgccacc agacactgca aagaactcca 180
 ctgtcatcat gcatacccat gaaacaagta aagtcaatca gttggctgct acatggccaa 240
 gggcgaaactt tcaaactgat tacaacaaga agccttccaa tgtaccata atggctaacc 300
 agcccagtgg gttecgctgg ggcactgctc ccttggtgac accaaagatg gaaatcgga 360
 acatgaagga cagttccaat cctctctcaa attctgctta cgcaaggcg cttgtaataa 420
 agcagcaaga gcagctcctt cagcaatata aattgggcag 460

<210> 39873
 <211> 201
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-053-Q1-K1-A10

 <400> 39873

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 ggctctgac aacggccgtg cgggcgggat caagaacgtg aacctgtgca cctacaagg 120
 cactactgcy tgcgggaacg ttcccatttt taaagaccgg aagggttctt ggctaagcct 180
 cgaagtgaga atccaggga a 201

<210> 39874
 <211> 378
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-053-Q1-K1-A11

 <400> 39874

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 gtgaagagca tggctcgctc ctagacaaga tcaacgacaa gatcaacgag aagatccatg 180
 agtataagca ctcgctcgctc tctcctcctt cttcggactc agacgatgac aagaagccca 240
 agaagtctaa gaagaagaag ctttttgga gaaaacatcc attgcatcat gtcctcggag 300
 gaggcaaagc cggcgacctt gtgctgtgga ggaacaaaca ggcacctggg agcatcttgg 360
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<210> 39875
 <211> 382
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-053-Q1-K1-A12
 <400> 39875

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 ttccacgact gcttcgtcag cgggtgacgac gcgtcggtgc tgatcgcgtc caccagtttc 120
 cagaagtcgg agcacgacgc ggagatcaac cactccctcc ccggggacgc cttcgacgcc 180
 gtggtgacgc ccaagctggc cctggagctg gaggccccg ggtggtgtc ctgcgcgcac 240
 atcctcgac tggtcgctggg cgtgctgatt accatgaccg gcgggccccg gtaccgggtt 300
 ccgctggggc gcatggactc gctgctcgctc tcgcccacgg cggccgacgt ggagcttgcc 360
 cagccaact tcaccgtgga cc 382

<210> 39876
 <211> 273
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-053-Q1-K1-A2
 <400> 39876

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 ggtgtcgctc cttgcagcgc tcgtcgccgg cgggtcatgc gggccccga aggtgccgcc 120
 cgttcccaac atcaccacca actacaacgg caagtggctc accgccaggg ccacctggta 180
 cgttcagccc aacggtgccg gcgtcctga caacggcggt gcgtgcggga tcaagaacgt 240

gaacctgccca ccctacagcg gcatgacggc gtg

273

<210> 39877
<211> 301
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-F6

<400> 39877

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ccttagttac atcatctttt cagtccacac gctgtcatcg agaattcaca aatcgacata 120
tagatttgtg atccaatcac aaagaataac aaggccggga gctagctagt aaaggagcag 180
ggatttggtc ctttaatttg tccaaatgac gatgctgttg atattttcac cgcttcattg 240
cagtggagac ccaaagatg atgctgggga cgttcagccc ccagctagag ccctatgtct 300
a 301

<210> 39878
<211> 438
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-D8

<400> 39878

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cgggtccaac atcaccacca actacaacgg caagtggctc accgccagtg ccacctggta 180
cggtcagtcc aacggtgccg gcgctcctga caacagttgt gcgtgcccga tcaagaacgt 240
gaacctgccca ccctacagcg gcatgacggt gtgtggcaac ttccccatct tcatagacgg 300
caagggttgc ggctcatgct atgaagtgag atgcaaggaa atacctgatt tcttcggcaa 360
ttcattcacg gtgtacatca cttacatgaa ctacgaacct atcgctccct aacactttga 420
cttgagccgc aaggcctt 438

<210> 39879
<211> 459

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-052-Q1-K1-D9

 <400> 39879

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 tattaattcc ttaacttgta atgcacatga tattttcctt atgtattaat tccttaactt 180
 gtaatgcaca tgatgttttc cttatgtatt aattccttta cttttaaagc acatgatgaa 240
 ggctggttgt taggtaagtt ctcttaaaact ttagtaagct tgcgtacttt tgctatggat 300
 cttttgaatc aattacaagg taattcattt aaaaagcgta gtaacacgtg tacctaaata 360
 tcatatataa aagtctgtat ggtactgatg gttgcaatgt agtggtgaaa caactagatt 420
 aaaataacaa aatttatgta tggataggat cacatatgt 459

<210> 39880
 <211> 397
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-052-Q1-K1-E1

 <400> 39880

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 atggaattta tttactgttg gtttacctag tacttgctta ccagccaggc gccccagggg 180
 acgacggcaa agatacagtc tcgggtatta ggtatggcaa ggcagcgata gataaattct 240
 actccaagta tatgttggga tcacgtaagc tgggtgcttg cccacattca acgatctttg 300
 gcaaaaggat gcttgtcaaa agtgcgatca tgtgctattc caataacaca agatagatca 360
 gtccctgagg aaggtctaca ggggccttgg ctttttg 397

<210> 39881
 <211> 464
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-052-Q1-K1-E10

<400> 39881

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 tgcttcactg aggaacccgc cacagccagc acgccaggct cctcctccag ctctgttcg 180
 agatggtggt ggctccatgt ttggaggaat tgggtccacc attgctcaag gtatggcggt 240
 tggcacgggt agtgccatgg cacacagggc tgttgactct gtattagggt cccggaccat 300
 ccagcatgag actcttgcca cagaagctcc tgctgctgcc cctgctgctc cagcgatgaa 360
 tgctgatgct tgcagcttcc attctaaggc tttccaagat tgtctcaaca actatggcag 420
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<210> 39882

<211> 331

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-052-Q1-K1-E11

<400> 39882

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 aatggggggg ggggggaaaa aggatttggt ttgggggaagg gggggggaaa aaaaaaatg 240
 ggggcggggg gaaaaaaacc cggggggggg gaaaaagggg gggggaaaaa aataaggggg 300
 ggggaacaag cccggtggtg aggggggggag a 331

<210> 39883

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-E3

<400> 39883

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tctgtgcgct gagccagtta acgagtacgt ccagagctgc gacatcgttg ccttcaacaa 120
gatctaggcg tgactttcga tcagtccttc ccctggggtg ctggcgatgg tgggtggctgg 180
gcaatgcacc agcctaattt ttccatagct atatgtctgc tttgtgtggc cagtgatatt 240
gccgtgagta tttttggatc ctattcgagt cgaatgtacc agtaccagag ttaatttgct 300
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<210> 39884
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-E4

<400> 39884

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atccctgact gttccctga ggttcgatgg tgctctgaac gttgatgtga acgagttcca 180
gaccaacctg gtgccctacc ctaggatcca cttcatgctt tcgtcctacg ctccagtcac 240
ttctgctgag aaggcctacc acgagcagct gtccgtggcc gaaatcacca acagcgcctt 300
cgagccatcc tccatgatgg ccaagtgcga cccccccat ggcaagtaca tggcatgctg 360
cctcatgtac cgtgggtgatg tggttcccaa ggacgtgaac gctgctgtgg ccacaatca 419

<210> 39885
<211> 431
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-052-Q1-K1-E5

<400> 39885

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agttcactgt ctcaacactc tcttttccaa gttcaaatac aaccagtcaa taatattttg 120
taactctgta aatcgtgttg aactattggc gaaaaagatc acagagcttg gctattcttg 180
cttctatatt catgcaaaga tgctacagga ccaccgtaat agagttttcc atgatttccg 240

taatggagca tgcaggaacc ttgtttgcac tgatcttttt acaaggggaa tagatattca 300
agctgtgaat gttgttatca attttgattt cccaagaac tctgaaacat atctccacag 360
ggttggtaga tctgggagat ttggtcacct tggctcggcc gttaattnga tcacctatga 420
ggatcggttt a 431

<210> 39886
<211> 58
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-E6

<400> 39886

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<210> 39887
<211> 463
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-E7

<400> 39887

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accccgtca ccttcaggt tggcaaggga tccaagcctg gccacctgat cctcaccccc 180
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cccctttgca tccgctttgc tgtcaagtct ggtggctacc gcatcgccga cgacgtcatc 360
cccgccgatt tcaaggccgg caccacctac aagaccacac tcagcatcta attagcctct 420
catgatgaat tagatttcaa aagagctcat ctggcgacaa tgt 463

<210> 39888
<211> 321
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-E9

<400> 39888

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ctgcggaaag atagaatcat ggaaagagaa tgtgcgcatg catgggagag atcgtgaaca 180
gggtcattta tgtgggacga tggaagcgtc tgggtggttca tttgcacaca cacctgacgc 240
gacttttttg gagggggaga tagactgtgc tgaagacatc actgatttca ctggagagcg 300
ggaggcatgg cctgatgatc a 321

<210> 39889

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-F1

<400> 39889

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accttcgtct tccttttgtt tgtttttttt tccttctct ttctacttga ttttcattta 360
acgaattggt atcgctgatg caccagttaa atttggtgcc ctgttatttg ttctttccct 420
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<210> 39890

<211> 250

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-F11

<400> 39890

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cgggcctggt gggtccttcg acatcaccaa gttggggcgcc tccggcaatg gcaagacaga 180
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aattcttata 250

<210> 39891
<211> 465
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-052-Q1-K1-F4
<400> 39891

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<210> 39892
<211> 421
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-052-Q1-K1-F5
<400> 39892

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tctcatatct ccactattgt cgctccctgc gatttgaaga caggccagat tactcttcaa 240
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actggactgc actcaagtac cctcaaatgg gctccaacga caagcttggt caacaaccaa 360
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<210> 39893
 <211> 446
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-052-Q1-K1-D6
 <400> 39893

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 atgacataga tgacttttct tcagtggatt cacttaacct gttcccaagt ttaagggatg 180
 tcaggctttc tgacaatcct gtagctgac ctgccaaggg tgggtgctcct cgttttgtgc 240
 ttgttgctcg acttggaataa gttggaatac taaatggcag tgagataagt ccacgtgaac 300
 ggaggggaatc tgaaatacga tatgtccgcc ttgttatggg aaaaatagaa tcaaataacc 360
 aagaagagat cagacgggctt caccctagat tcgctgaact gaagtccttt catgggtattg 420
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<210> 39894
 <211> 383
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-052-Q1-K1-C1
 <400> 39894

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 gcaaattacc ttgcttgccc tcctttaatc gaggcttatt gcttggctgg cacagttaat 240
 attgattttg agaaagaacc tattggcatc tccaacgacg gtaaataatgt ttacttccgg 300
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383

<210> 39895

<211> 465

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-C12

<400> 39895

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actgctccaa gctcaccgga tccttcacgg acgagaacct cgagttccag cgcaagatcc 120

tcgagcgtc cggcctcggc gaggacacgt accttcccc cgccgtgctc cgggtgcccc 180

ctaaccctg catggacgag gcgcgtaagg aggcgcgcgc cgtcatgttc ggcgccatcg 240

accagctgct cgagaagacc ggtgtcaggc ccaaggacat tggcgtccta gtggtcaatt 300

gcagcctgtt caaccgacg ccgtcgctgt cagccatggt ggtgaaccat tacaagctga 360

gggggaatat tgtcagctac aacctcggcg ggatgggctg cagcgccggg cttctgtcca 420

tcgacctcgc caaggatctg ctgcaagtgc accccaactc ttacg 465

<210> 39896

<211> 459

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-052-Q1-K1-C3

<400> 39896

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tgtctgatag tgataatagt gattctgagt ttatgggcac cctgtcgagg tcaagatcgc 180

acaccctgaa gacaaaccga aaattgtttc aaaatggcag tactggtttg ataacacctc 240

aatccagtgg actgatagaa agagagaggg tcagaactaa atcccagcca ttggacccaa 300

aagcaacaag caacggagat ctacatacta tggatgagta tcagtctgtt atcatgcagt 360

taagggatga aaattcatca ctaaaggaaa gattatcaaa gatggaagaa tcgatgtcgc 420

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<210> 39897
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<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-C4

<400> 39897

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caccgttcac gacgcacggc tactccatga accagcggct gctggtgctg tccgtcaccg 240
cgttcgcggc caacgggcag aggtacacga taacggtcga cgctccggga aagcctgagc 300
tcgcgcccgc cggatactat ctgttgtagc tcatagcgaa aggcgtgccg agcaaggccg 360
cgtgggtgaa ggtacacaaa tgagaacgaa ggcggtcgcg agacgaatgc cagtcgcgtt 420
tggcacgaca atacacaagt gttcaccgga gtagctggac c 461

<210> 39898
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-C6

<400> 39898

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tgcatatcgt gcttgtgcag gagtcatcaa atgtggcaaa aacttttgcg tgaccagttg 180
accatccgt tcacaaaatc atctgattga agatggtgga agcaacagct tgtgtatcaa 240
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ggcggctaac acaagcaggg tccttctgcc tctagttgtt ctcatcctc atctcgtact 360
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ataaggaacc tttgaatatt ctgggttggt gatctttttt ca 462

<210> 39899
 <211> 449
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-052-Q1-K1-C7

<400> 39899

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tctcctgctc atttgtgtcca ccgatatggc acaggcaagg gaatgcgaga agtacagtga 180
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aacaagatcg ctcgatcgct cgccatgcat cgacaacctt ttcttaataa cgttcattat 360
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gactgtcatg tatctcgnct atgtatgct 449
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<210> 39900
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-D10

<400> 39900

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agaagttcaa cagccctgtg atgtcatcg gagagaacgg aattgaccag cctggaaatg 180
agaccttgcc gttegtctctg tacgacaagt tcaggataga ctacttcgag aagtacctgt 240
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tgctggacaa ctteagtggt cggctcggct tcacctccaa gtttgggatc gtgtacgtgg 360
accggaacac gttegtccgg taccccaagg actcagctcg ctgggttcagg aaggtcatca 420
agaacgagaa ctgaatgatc gat 443
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<210> 39901

<211> 444
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-052-Q1-K1-D11

 <400> 39901

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 gcggcgctct tctgggtgtc tatgacagtc tcgaaggcgc cgacgagcgc cttgaccctg 180
 ctgcactggc gcttctgcat cagcttggtg cgtgccgcct cgatcacgtc gttgctccgc 240
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 cggctgceca ggaatctccg catcgccacc tccttctcgt ccatctccgg cttcttgatc 360
 gcctccttca ccaccgccac gaacttgctc gccaccacgt cctccactgc ggcgacaacg 420
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<210> 39902
 <211> 123
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
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 <400> 39902

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 gtc 123

<210> 39903
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-052-Q1-K1-D2

 <400> 39903

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acactagtct cgtcaagggg ggatcccacg ggttcgctag tggcggcagg gatgggtctc 180
 cggaggtgcc tcgggagtgg ttgcggaagc tgtgggtaga cgagctgaag aagcagaagg 240
 aagccgcgag gagatggggc gtcggctcat cattagaggt tgcaggagcg accgaggagg 300
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<210> 39904
 <211> 434
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-D3

<400> 39904

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 gggagaacac aacctgccgt tttcccacgt ggccaaagct ttggacaaag aattatgggc 180
 aatatgatgg ataatat tttt ggtcagaagt cttacgtcca aatcaaaagg tcgaacagat 240
 gatattgctc caccctcacc tgtgaaggcc cctgatgatg aggctgacaa ggctgaagag 300
 gaagaaagcc ctatgatgga aactgtcagg agcaaagtta ttacacagtt actgctgctt 360
 ggggcaattg agagcataca gaagaagtat tggagcaggc taaaagctac acagcagata 420
 gcaataatgg atat 434

<210> 39905
 <211> 466
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-D4

<400> 39905

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 gaagaaacgg tgcttcagtc ttttagcattt tgaggaggaa acgtgaaact tactggtcag 180
 ctgaaagcta taaacattgc catggccctg gactggaagc cccaactttc ccaagcctgt 240
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tgggtacagt agctagctat agccctagtc tgatgtaaga acaaatttat attatccatc 360
ccatattgtc ttttaattaga ttcttttttg aaaccaatgc aatttcagct cttgctgtcg 420
tgcaaatttg taccattgtc catggatgag tagatgacct gggaga 466

<210> 39906
<211> 285
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B8

<400> 39906

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ataacgcgcg atatgttttt aacaggctct acaaactctc gctcaaagag atcaaggccg 180
tcccctaata cgagggtttc tcgatggcct gcttataact tcacccttta cacgtttcca 240
catctgcctt gatgaggagg actggaatcg catccttgac ctaat 285

<210> 39907
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-H3

<400> 39907

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tttaacgaag agttgatgca gatctgatca cgcagcaacg tctatgtaga gcgtgctgat 120
aacgtgttga gaactacgtc accacggatc accagatccg ttcctttccc tgccgtcagc 180
agattatgcy cgagaagatt tggatgaccc gtatcccttt ccataagcac gacagattgc 240
acatgagaca cat 253

<210> 39908
<211> 388
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-A1

<400> 39908
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 cgacctcttc ggcgacaacc agggctaccg cgagctgtcg gagctcgccg agcaggcggc 180
 caagcgcgcc gaggtggcca ggctcaggga gctgcacacg ctcaagggaac acgtcgagtc 240
 cgctcgtaag ctcaagggcc tcgacattga caccattcag cagagctaca ccgtgtaaac 300
 tcgactcacg ttttttatTTT ggTTTTTTTTT gcggacaaat acaaaccaca cacatatata 360
 tatttggaag agagtcggtc ggatttttt 388

<210> 39909
 <211> 436
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-052-Q1-K1-A10
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 acgacctgga cgggagctac ttcggcctgg tgctggagaa gaagatgccg ctcaccatcg 180
 accgcctgat ggggatggac aagaagacgg agcccatagt gaaggccatg tccgacaaga 240
 ccaccgactt cgtcccgtc ttcgccaaag ccatggagaa gtcagcgtg ctcaagggtgc 300
 tcacggggaa ggaaggcgag atcaggaaga cgtgctccga gttcaacaac ccgcagaaca 360
 gcagcggcag cacgtcggtg atacggatca gctccatcga ccccgaccag gtggccgggc 420
 tgtcgcagcc agggtc 436

<210> 39910
 <211> 407
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-052-Q1-K1-A11
 <400> 39910

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agagaagtca cgaaagcaga tgaaggaacg taagaacagg gcgaagaaaa tccgtggtgt 120
gaagaagaca aaagcgggag atgccaagaa gaagtaaggg aggaagttac ttgccttgcc 180
atttctcatc ttagtctttg gtttgtttag ggtgggctcc ttccggcaat gctgaatgtt 240
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tctgttcagt tttgaggcac cttctgttca gttttgaggc actttgtcag acacaagaat 360
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<210> 39911
<211> 458
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-052-Q1-K1-A12

<400> 39911

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ccacccacgc caccgcggc tactacctg gcattgttct cgggggcgcc taccaagagg 120
ccctcggcgg gctgcacaac ctctcggcg ggccgagcgt ggtgcgcgtg tcccagtgcg 180
acgggccccca ctgcttcgcc gtgacgcgcg ccgcgcggg cccgtcctgc gccgacgtgc 240
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gcgccacggn cgntcgctc gcccggcct tcggcgcaat gccgtacctg gtgttcgacc 360
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ccgccgagga ggaagacgat gaggagtggg agttcatg 458

<210> 39912
<211> 383
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-A2

<400> 39912

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cgacctgtta ggggacaacc agggctaccg acagctgtca cagctagacg agcaggcggc 180
 caagcgcgcc aaggaggcca ggctcagagt gctgcacacg ctcaaggac acgtcgagtc 240
 cggcgtaaag ctcaaggga tggacattga caccattcaa cagagctaca ccgtgtaaac 300
 tcgactcagg ttttttatgt cgttttttgt gcggacacat tcaaaccaca cacatatcta 360
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<210> 39913
 <211> 128
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-A5

<400> 39913

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 tgatatatt 128

<210> 39914
 <211> 483
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-052-Q1-K1-A6

<400> 39914

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 gtcttcggcg ccatggcggc ggacggcctc cgcgctgtac caccacacga tccaggctgg 180
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 caccgccgct cgcttcagg tccgcgcggg cgagcgatcc aacgccattc ttcacgcggg 420
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 atg 483

<210> 39915
 <211> 388
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-A7

<400> 39915

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 caagcgcgcc gaggtggcca ggctcaggga gctgcacacg ctcaagggaac acgtcgagtc 240
 cgtcgtcaag ctcaagggcc tcgacattga caccattcag cagagctaca ccgtgtaaac 300
 tcgactcagt ttttttattt gttttttttt gcagacaaat acaaaccaca cacatatata 360
 tatttgtaaa gattcgttcg tattttca 388

<210> 39916
 <211> 359
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-052-Q1-K1-A8

<400> 39916

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 aggaggagga ggagaagggtg tccaaaagcg acctgaagaa gctggagAAC ctcatgtcca 240
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<210> 39917
 <211> 124
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-A9

<400> 39917

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ttggaagacg cttggcttca gtttgcggtg gagcactcct gcgacgacaa ggaggccatg 120
cgcg 124

<210> 39918

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B10

<400> 39918

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ggatgtggat tacgacgtga tcgtgctggg caccgggctc aaggagtga ttctcagcgg 180
cctcctctct gtggaccgcc tcaaggtgtt gcacatggac aggaatgact actacggcgg 240
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ggcaaatggg accttggttc gtgtgctcat tcatactggg gtcaccaagt acatgtcctt 420
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<210> 39919

<211> 366

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B2

<400> 39919

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attgatggac atgttaagcc tgttctaggg agaaagctta actggatgaa ggcagggatc 120
attgagagtg atctggttct aacagtcagt ccacattatg tcaaggaaact cacttctggc 180
ccagataagg gtgttgagtt ggatggtgtc cttcgacaaa agcctctaga aattggaatc 240

gtaaattggca tggatgttta tgaatgggat ccttcaacag ataagtacat cagcgtgaaa 300
 tatgatgcaa caacggtaac tgaagcaagg gctctcaata aagagagggtt gcaagccgaa 360
 gtcgga 366

<210> 39920
 <211> 428
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-052-Q1-K1-B3
 <400> 39920

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 ctaacgcgcy agaggttctg gtagggctct acgagcgac gctcaaagag atcaaggccg 180
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 ctaagcat 428

<210> 39921
 <211> 363
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-052-Q1-K1-B5
 <400> 39921

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 aatctcaatc agctctggaa acggttcaag ggtgaagaaa caccgcctgc gcacatagga 240
 gctagcagag actacaacgt tgatatgggt ccaaagttta tgatggcaaa tggtagcttg 300
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agc

363

<210> 39922
<211> 397
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B6

<400> 39922

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gtccgggcct ggtgggtcct tcgacatcac caagttgggc gcctccggca atggcaagac 180
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caaggcgac gtgaccatcc acgtggatgg caatctgctg gcgaccacgg acctaagcca 360
gtacaaggac catggaatt ggatcgagat tctacgt 397

<210> 39923
<211> 144
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-052-Q1-K1-B7

<400> 39923

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agaattgttc tggagataat tattgccatc cttacatatg cattgcccag aaatcctgag 120
gttgtgtatg ctgtattgca tcga 144

<210> 39924
<211> 151
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-051-Q1-K1-H1

<400> 39924

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aagctggtga gaactacggt accacggatc a 151

<210> 39925
<211> 270
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-C8

<400> 39925

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tgtggaggaa caaacaggca tctgggagca tcttggtagg ggtgaccgtg atctggttac 180
tgttcgaggg catcggctac cacctgctta ccttcctttg ccacgcacta attgtgtttc 240
tgaccatctg gttcatgtgg gccaatgctg 270

<210> 39926
<211> 283
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-D2

<400> 39926

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cctggagagg caactgcata gcctcatcga gcagttgaca gctaagcaag ctcaagctga 180
aattctggcc actgatgtgc attccaaaga aaaggagctg gaacggctga accatctgca 240
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<210> 39927
<211> 254
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<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-D4

<400> 39927

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ggcgggtgtga tcctgttggc agtgcttata tttatcctga tttcctact actattgtgg 120
ttgtttcatt cgtacattgc tgtaacaaat caatcaacct acgaagttgc cagaaggaag 180
cgaatattct acctaagggg agttcctgaa agagtccacc cattcagtag aggcatatgc 240
agaaatctct atga 254

<210> 39928

<211> 248

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-D6

<400> 39928

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tctggctcca accaccccca tcatgctcgg gcttgctctc aacttctcag tggttctacta 120
cgagatcctc aactgccctg accgtgcttg caaccttgct gagcatgcct ttgatgaggc 180
aatctccgag ctagactgcc tgggagagga gtcctacaag gacagcactc tgatcatgcg 240
tggttctgc 248

<210> 39929

<211> 436

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-D8

<400> 39929

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tcctacttgc aacggcgatg ctgggttgcgc tggttgcggt tggtttgtgc accacccgcg 120
tcaccttcca ggttggcaag ggatccaagc ctggccacct gatcctcacc cccaatgttg 180
caaccatata tgacgtggag atcaaagagc acggggggcg tgacttctcc tttacgctca 240
aggagggccc gaccggcacc tggacgctcg acaccaaggc cccgctcaag taccctcttt 300
gcatccgctt tgctgtcaaa gtccgtggct accgcattcg ccacgacgtc aatccccgcc 360
gatttcaagg ccgcaccacc tataagacca cactcagcat ctaatcagcc tctgatgatg 420

aaatatatattt caaaag 436

<210> 39930
<211> 58
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-E1

<400> 39930

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<210> 39931
<211> 273
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-E2

<400> 39931

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agccgttcga gatgattggc gccacaagga tacaggaact tatcgactcc atggaggatcg 120

ccgaggaggc gccctgggag gaggccagct tcgtgcagga tgaggagagg ggcccagaag 180

atgctgctgc tgctgcacct gcacccatgg acatctataa gcccacatg aaccaccaa 240

gtttacgctg cattctgtgg tccctaaaga cta 273

<210> 39932
<211> 255
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-E3

<400> 39932

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agggctgttt gagatttgac ccatgcgttt ctttaagagc atcgtcgaat aaaagatgac 120

tgcagtcaga ttgctttctt ttgatactc atattggccc attgggtgtg atggacatgt 180

aatattcagt tatggaacat gtcattttct atgcttagcg tgctgggaat tttgcaaaag 240

gtctcatata tcatt 255

<210> 39933
 <211> 409
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-051-Q1-K1-E4

 <400> 39933

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 atggagatga agaaggtcct ctgcgcgcgc ctcgtcgccg ccgcctcggc caccgccgtg 180
 ctggcctcgg tcgcctccga ggcgcctcc gaggcgcccg ccggcgcggc cgggtggtgcg 240
 gctggcccta gcgcaagcgg cgcgcgcgc gtcgtcgtgc ccgccgtcgg ggcgctcgtc 300
 gcctccttcc tcgcctacta cctncaactga gcgacgacgc gcggggcggc aacgttggga 360
 tgcacgtgtt ttgttcattc gataaataat tggttttttt atttacgtg 409

<210> 39934
 <211> 238
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-051-Q1-K1-E5

 <400> 39934

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 gaagcgtagt gaaggggaac aaatgaatgg atatatgtaa tcttgagatg catgccctct 120
 caaatcactg tactgggggt ctcaaaaaaa ttattcgcat gggagttata tatataactg 180
 tatctcacca tttatttaca ccaacaagtc attgggtatg catgttctat cgttacat 238

<210> 39935
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-051-Q1-K1-E6

 <400> 39935

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 aaggtaatgg agtcgtcacg caggttccag ccggccgtca tcctgcttct cctgctcatt 120
 gtgtccaccg atatggcaca ggcaagggaa tgcgagaagt acagtgagcg atttgttggg 180
 gcatgcatga tcgcagacaa ctgcgccaat gtgtgccgcg gtgagggctt cttggccggc 240
 aagtgcagca cct 253

<210> 39936
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-E7

<400> 39936

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 cccacaggta gcggaggcaa agaagaagag agcggcggag agcggcgagg cggcggaggc 180
 gaagaagatc caggacgact tctgctcgac gctgtgcgag ggcaagaagg ggacggacct 240
 gttcgtgtgc aaggagtcct gcgctctctc ccagcagtc aacctgggtc tgtacggcag 300
 gatccagtgc aagggaagt gcaccgagca gaaaggcatc acg 343

<210> 39937
 <211> 392
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-051-Q1-K1-E8

<400> 39937

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 atggatacac tgcaaagtcg acttgatgca gagttccttc tagctcatat gtgttcagtc 120
 aagtttaagg aatggatcgt ggtgctagct actttattgc ggcgtgcaga ggttttgggtg 180
 gatctcttta ggcatgattt gcgattgtgg aaagcatata gcattactct acagtcacat 240
 gatgtattca cagaatatct tgaccttctt aatatcttgg aggaggagct ntcactgtc 300
 tctgatotta cattgcaaaa tggaccattg tcatgaatgc tggacaatgc cactgattga 360

aagattgcgg tgtttaaacc ttgagttaat ta

392

<210> 39938

<211> 59

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-F1

<400> 39938

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59

<210> 39939

<211> 379

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-F2

<400> 39939

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caagccgcgg ccgacgccgc agcagcagct ggcgcgatgg cagcgccgcc tccgcaacga 120

gtgccgcgtc ctgcaccgtc agatccgaga tgtgcagagg gaggagaaga acgtggagaa 180

agccatcagg gaggctgcca agcgcaatga catgggatct gcaaaggctc ttgctaagga 240

gcttgtaaga tcaagacgtg ctgttaatcg gctttatgag aacatggctc aactaaattc 300

aggtatcaat gcaccttggg gacatttgct gcactgcatg aacagggtgg tcatcgggtc 360

aaaagcactt gaagtgatg 379

<210> 39940

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-F3

<400> 39940

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acttcggcac cggcaagctc gagcgcgcca tcgacggggt caccgacgcg accggcacct 120

acacgatcga gctcaaggac agccacgagg aggacatctg ccagggtggtg ctggtggcca 180

gtccgcgcaa ggactgcgac tgaggtcagg cgctcaggga ccgcgcgggc gtt 233

<210> 39941
 <211> 331
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-051-Q1-K1-F5
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 ggccgggatcg tgatggagct gtacgccaac gaggtgccca agaccgcgga gaacttccgc 120
 gcgctgtgca cgggcgagaa gggcgtgggc aagtccggga agccgctcca ctacaagggc 180
 tccaccttcc accgcgtcat ccccgagtcc atgtgccagg gcggcgactt cccccgcggc 240
 tacggcaccg gcggcgagtc catctacggc gagaagttcc ccgactgaga agttcgtgcg 300
 caagcacacc gtccccggtg tgctctgcat g 331

<210> 39942
 <211> 265
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-051-Q1-K1-C6
 <400> 39942

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 ggctactctg gcgtggaggt gcgcgtcacg ccgatgcgca cggagatcat catccgcgcc 120
 acgcgcacgc agaactgtgt cggcgagaag ggccgtagga tcaggagct cacctccgtc 180
 gtccagaaga ggttcaactt ccctgagaat ggcgtagagc tttacgccga gaaggctcgtc 240
 taccgtggcc tctgtgccat cgcgc 265

<210> 39943
 <211> 343
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-051-Q1-K1-F6
 <400> 39943

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 tgctcaattt gctgttgctt tcaatggagc atcatgggta gatcctgatt ctgttgcaact 180
 gatggttatg caatcaatgc ttggttcatg gaacaagagt gctggtggag gaaagcatat 240
 gggttcggag cttgtacaga aagcagcaat caatgacatt gctgagagtg taatgtcatt 300
 caacatgaat tacaaggaca ctgggctttt tggggctctat gct 343

<210> 39944

<211> 239

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-G1

<400> 39944

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 gctctagctg ctggaccctt ggtgcaagcc cgaaactttg cagtcatgac tggcgcaaact 120
 gcaggcatat cttgtgtcat gagaaggcta cgatggcaag aggacattca gggcagcatg 180
 acagctgctt ttggtgctgg tgctcttttc tccatagtga gcggaatggg aactcctaa 239

<210> 39945

<211> 136

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-G2

<400> 39945

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 gcaagtacat gctcgggggc atggaccggc accggcacgg cctgttcgac gacgatggga 120
 agtagatgca cggaga 136

<210> 39946

<211> 255

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-G3

<400> 39946

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gccagcttat gcagatgacc atgatgggtc caccttcgtt accgtgagaa cactctctga 120
acaaggagga cagactgggt cgctattgct ggctgggtgt gaagcacaga gacgcgggtgt 180
atggactgga gttctgctat gaggatggcg gtaggaacga gctgagcggc tttagccttg 240
cttgtagaaa ggatg 255

<210> 39947

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-G5

<400> 39947

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gctcgtcggc gccgtcacgc actatgtcgc cgtcgccgcg ctcattccact ggccgggagaa 120
gggtggtgcc gcctgtggcg cggcgtcgta tggggggctt gctgctcctg gcttctgcag 180
caaccacgct gaggtgtttg atcatccaga gcttcaatgt gccactgcga tggattcaac 240
atgcgttcga atcggttaac gaagtacttg cagttgcagc atagatcggc tctagaggtc 300
gtcgattcgt aatttaattg atgggatgat cgagtatggg ggctcattaa cttatgatga 360
gatttatct 369

<210> 39948

<211> 149

<212> DNA

<213> Zea mays

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<400> 39948

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ggttcctggc gttcgtcgtc gtgattgtcg tttgacgtct acagttcgac gaccacttgc 120
acaagcggaa ggagctcgtc gaggcgtct 149

<210> 39949
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-050-Q1-K1-H1

 <400> 39949

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 atgcaagtac cccgccgggc agaagatcgt gttccacatc gagaagggtc gcaacccccaa 180
 ctacctggcc gtgctgggtga agtatgtggc ggacgacggc gacatcgtgc tgatggaaat 240
 ccaagacaag ttgtcggctg agtggaagcc catgaagctc tcttggggcg ccatctggag 300
 gatggacact 310

<210> 39950
 <211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-050-Q1-K1-H10

 <400> 39950

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 ggaccggcat cagcatgggc ggggcagcgg cgtggaggac cgggcgacgc tgctgcggcg 120
 ggtgcagacc cgcgcgccca actcgacgca ggtgggtgggg ttcttgacgc tgctcgtcta 180
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 cttctggggg ggcatcgcg tggtcaccag acccatgtgg gtgcccgtcg acggcgtgat 300
 ctccgacatc gttggcgacg cgctctacga ctgagccttt cacgacggca agtccccgt 360
 ggccacctgg atgtcccgt acttcacggg ccggcacccc gggggcgc 408

<210> 39951
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-050-Q1-K1-H11

 <400> 39951

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 ccaacatcac caccaactac aacggcaagt ggctcaccgc tagggccacc tggtagcggtc 180
 agcccaacgg tgccggcgct cctgacaacg gcggtgctg cgggatcaag aacgtgaacc 240
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 gctgcggtc atgctacgag gtgagatgca aggaaaaacc tgagtgtctg ggcaatccag 360
 tcacggtgta catcactgac atgaactacg agcctatc 398

<210> 39952
 <211> 309
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-H2

<400> 39952

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 gagcttgcaa ctgagatgcg ctctgttggg cacaacctta ctgaaaaaca gcttgaagac 180
 atgatcaacg acatggatgc tgatggcgat gctaccattg acttgaccaa tgacctgaac 240
 ctgatggcga agctgatgaa agacaccaac tacgacgacg accttaagga ggaccttaac 300
 gaggtctac 309

<210> 39953
 <211> 419
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-H5

<400> 39953

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 cacagttact gatgtcagtg tgaatgcaag aggtctaac gcggctgtta tagctgtttg 180
 gagcacagct ttgcaacaat attatgtcca ttttctccaa cgcaagtact ctctgaactc 240

attcaacctg ctgggccaca ctgctccagc ccaagctggg tcaactcctgc tagtgggacc 300
 atttgcagat tacttgttga caggcaaaag ggtggatcac ttcagtttct catcgcttgc 360
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<210> 39954

<211> 317

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-H8

<400> 39954

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 agacgctgaa gtaaatcaaa agagcttggg aaatgaacac gatgtaccaa acaatgggaa 180
 aggttccctca acggtggtgg attctgactt cacatctgaa tgtaaaatca aaacaatcga 240
 tcctatgaac gattctggga ttactttaaa agaaaagagc attgatcctt ctatcaatga 300
 catgaagcaa gattctg 317

<210> 39955

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-H9

<400> 39955

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 acgacggcaa agatacagtc tcgggtatta ggatggcaaa ggcagcgata gataaattct 240
 actccaagta tatgttggga tcacgtaagc tgggtgcttga cccacattca acgatctttg 300
 gcaaaaggat gcttgtcaaa agtgcgatca tgtgctattc caataacaca agatagatca 360
 gtcctcgagg aaggtctaca ggggccctg 389

<210> 39956
 <211> 273
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-051-Q1-K1-A7

 <400> 39956

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 cgctgccgcc atgccaggca cgttgaacta ctgtcgcgat ggtggccgac gagccagact 180
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 agtgcataga acgctgttgg ggcgcgcgct gat 273

<210> 39957
 <211> 118
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-051-Q1-K1-B1

 <400> 39957

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<210> 39958
 <211> 253
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-051-Q1-K1-B3

 <400> 39958

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 gcaacatcat ttccagaaca tgaccaagca cacgtgcttg aaagggcgct acgatgtgat 180
 cacctacgtt gccatgcta ttgcacttgc tgccttcagc atgttcatga ttgggcgtgg 240
 agtgtacaac atg 253

<210> 39959
<211> 254
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-B4

<400> 39959

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cgttgagccc gagcaagtgg aaggaagagc actttgttct agcaagcctc tcaatgtggg 180
gggttatttt ttatggtggt tacaagcttt ttagtggaag gaaggaagcc aagactgagg 240
cgggatcacc acag 254

<210> 39960
<211> 143
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-B6

<400> 39960

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gcaagaccta cccgtagtag gct 143

<210> 39961
<211> 279
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-B8

<400> 39961

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caaataatta actttagtgc tgacaatact ttaagccggc ctatgctagc tatactagaa 120
ttggttgat cccaagcaat gcattacaca tgcattgata ggaccgtgat atctatttgc 180
taccactacc ctattacgac agtgatgctg gcgccaacaa tgatggtgtc atctccttg 240
tgcatcttct tcacggcat atatagctag agtgagact 279

<210> 39962
<211> 432
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G9

<400> 39962

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ttcagacaag ccctgcgtc tgccctcca ggatgtgtac aagattggtg gtattggaac 180
tgtaccggtt ggtcgtgtgg agactgggtg catcaagcct ggtatggttg tcaccttgg 240
tccaactggc ctgactaccg aggtgaagtc tgttgaaatg caccacgagg cgcttcagga 300
agctcttccg ggtgacaatg ttggcttcaa cgtgaagaac gttgctgtca aaggatctaa 360
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cttcccaagg ca 432

<210> 39963
<211> 230
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-C1

<400> 39963

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ggcggtcgtg gatcgaggaa ccaagctgct gctgctgcta ccggacgaca ccaaccatga 120
tacggaggac gacggtgtgc ctaggcctgc tggttctact actggcggcg tcgactgcta 180
cggcacattt ctagatcgtg gacgtggacg agtacttgaa caggcgcacg 230

<210> 39964
<211> 253
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-C4

<400> 39964

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 tcgtcctctc caacgtgccc tcctcggggc cctggcctg ctggcgctcg tctctgctgc 180
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 cggcgtcgtc gtc 253

<210> 39965
 <211> 251
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-051-Q1-K1-C5

<400> 39965

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 accgttgggtt gcctcgtgcc gtggcctggt aagtcgatta ctgctcatca tggtaggagg 180
 ccccgaccga ccgtgcaacc gtgtgccgac gctgtggctg tgcgccaatg aaatcacgtg 240
 taagaacagg t 251

<210> 39966
 <211> 417
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-050-Q1-K1-F5

<400> 39966

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 cataccctgc aggacgtgta cgactcgtg gacgtgcacg tcggccactg cctctccgtg 120
 ctggtcgacg ccgaccaggc gcccggcgac tactacatgg tggcctccac gcggttcac 180
 cacgacgcca agtcgcctc cgccgtcatc cgctacgccg gctccagcgg cgcgccgccc 240
 gcgccaaca tgaccgagcc accggccggc tgggcctggt ccatcaacca ggccaggctg 300
 ttccgctgga acctgacggc cagcgccgcg cgccccaacc cgcanggtc ctaccactac 360

ggccagatca acatcacccg caccatcaag gtcattgtct tccgcggcca catcgac 417

<210> 39967
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-F6

<400> 39967

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gactgtcaca tctctccgaa gagggcggag gggagggaga tgctgtaatg ctgccggagg 120
gctgctgacg aagatgcgga agctggtgaa gggcctcgcc aggcccgagc ccacgtggct 180
catggccatg gaagaggcag caccagtgc atttcctcgc atgatgggaa gattaagggg 240
tgtttggttg ggattataat ctgtccagat tatataggcc aacaacttga acacccccta 300
agaagatcga gtttctgatg atgtgtatgt taggaagcta aacaaaaaga acatccggat 360
tcgctatgcc atgatgcaat caatggattt gatccaccac cagcacgagc ttt 413

<210> 39968
<211> 348
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F7

<400> 39968

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cggtttattg agatatgcgt gatgctttgt gctgatcatg gtcctgtgt atctggtgct 120
cataacteta tagttactgc tagggccgga aaggaccttg tttccagctt ggtgtctgga 180
ttattgacga ttggtccccg tttcgggtgga gcaattgatg atgcagcccc atacttcaaa 240
gatgcatgtg ataggagcct caccgcatag gagtttgttg aaggcatgaa aaagaaggga 300
atccgggtgc ctgggattgg tcacaggatt aagagcaaag acaacagg 348

<210> 39969
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-F8

<400> 39969

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cggctgcgac gcgtccatcc tgatcgaccc gatgtcgaac caggcctccg agaaggaggc 120
cggccccaac gtctccgtga agggctacga cgtgatcgag gagatcaaga cggagctgga 180
gaagaagtgc ccgaacgtgg tgtcgtgcmc ggacatcatc tcggtgagcg cccgcgactc 240
ggatgaagctg acgggcgggc ccgagtacgc ggtgcccttg ggacggcgcg actcgctcgt 300
gtccaaccgc gaggacgccg acaacctgcc gggcccgac atcgcggtgc ccaagctcat 360
cgacgagttc gacaagcang gcttcaacgt cgaggagatg gtcgcatgc ttggcgccgg 420
ccacagcatc ggcg 434

<210> 39970
<211> 443
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F9

<400> 39970

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agcttgagga gattgctctc gctgaagctg atgttgcaag gttaaaacag aaggttgcag 120
agcttcacct ccaactcaat caacaacgtc aacaccagta tggctctgta gtggatgcaa 180
atgatcgtea tcaccgcctc cctggtcatt tctcacagca aaactttgtt caacaaggat 240
ttgatatgaa ccttgctttc tgcaatcaag agaagcagag aaatgaggag agttcggtgg 300
agtcatacaca atggagaaac atcaagcagc atgtgctacc ttatggttct tcgaggccac 360
tcacacgaaa gctttcattt gatgcctcct caagtgaatc aaggggcaca gaaccctcaa 420
caagtatgtc aacagagaac aca 443

<210> 39971
<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-G1

<400> 39971

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ggccgtggcg gcggcgctgt ccctggccgg cgtggcgctcc gcggagaagg cgggcggggt 180
cgtggtgacg gggcgcggtgt actgcgaccc ctgccgcgcc gggttcgaga cgaacgtgtc 240
caggagcgtg gccggcgcgga cgggtggaggt ggtgtgccgg cacttcggcg cgtccaagga 300
gacgctcaaa gcggaggcga cgacggacga cagcgggtgg tacaagctgg agatcgacca 360
ggaccaccag gaggagatc 379

<210> 39972
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G10

<400> 39972

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gggggggaggg gaaaacacgt acattcaccc ggcggcaata atggcctcgg ttccgggtcc 120
ggcgacgacg accgccgccg tcatoctatg cctatgcgtc gtcctctcct gtgccggggc 180
tgacgacccg aacctccccg actacgtcat ccagggccgc gtgtactgcg acacctgccg 240
cgccgggttc gtgaccaacy tcaccgagta catcgcgggc gccaaagtga ggctggagtg 300
caagcacttc ggcaccggca agctcgagcg cgccatcgac ggggtcaccg acgcgaccgg 360
cacctacacg atcgaggtca aggacagcca cgaggaggac a 401

<210> 39973
<211> 411
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-G11

<400> 39973

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 gtacagaatc aggtggagga agctggttgc tgtgccaccg actcctgtgg cgctgcgcg 180
 tgctccaatg aggcgcaacc gtgtggcca gaccgatgtg gagatgcact tcgtgccccg 240
 cagacctgtg gtggtgacgt tgttacaact cgccaggagg cactccagcc tacgctcgtg 300
 aggagaagcg tagatggaac cacgaaagga agcgacagta ctgcggcgca ttcagcaggg 360
 aaggaacagc ggggtggaagt agtgactagg cgtggnntag atatcgacac g 411

<210> 39974
 <211> 412
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G12

<400> 39974

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 cggccagcgc ggcgcggccc aaccgcagg ggtcgtacca ctacggccag atcaacatca 180
 ccgcacccat caagctcgcc atggggccgcg gcaaggctga cggcaaggag aggttcgcct 240
 tcaacggcgt gtcgcacgtg gaccoggaaa ccccgctcaa gtcgcccag tacttcaacg 300
 ccagcgacgg cgtgttcaag tacaacctca tcggggacgt gccgcccttc aacacggccc 360
 ccaccaagat ggcacccaac gtcacacagc ccgagttccg cacgttcac ga 412

<210> 39975
 <211> 343
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G2

<400> 39975

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 cagggcccag ccgtgtggag caagaactcc tgcaccaaga agtacgactg caagatcctt 120
 cccaactcgc tggatgatga cttcgtgaac aacggggagg tgtccggggg cacgctgctc 180

aactccaagt tcttccacat gaacatgtac cgggtgcaagg acatgctaata caaggacgtg 240
accgtgacgg cgccccggga cagccccaac acggatggca tccacatggg cgactcatgc 300
gggatcacga tcaccaacac cgtcattggc gtcggcgacg act 343

<210> 39976

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G3

<400> 39976

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gctgctcca acaaggcaac aacaatctgt tccggccgcc aaacaaaacc aaaaaaaaaa 120
cacactgaac ccaataatcc gatccacag aaacttttct ctcggtccgt tcgatcgatc 180
gctgccgtgt cgtttgccag acaccatcag caccctaaac catggcctgc aacctggctc 240
aatgcccac cgccgccggc ggcaccgtcg cgccccgcac ccctcgccct gctgcgtacg 300
cgtccgtctc cttctccggc aggaagccgg cggggcggcag cctgcggctg cagcggcagg 360
cgtgc 365

<210> 39977

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-G5

<400> 39977

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atcattgtgg attttatcga tatgtgagat gattcgaaca aaaaactagt atatgaagaa 120
atgaagaaag cagtagaaaa ggatcgatca acagttgggtg tttcagaact atcaaagcta 180
ggtttgatgg aaataactag aaaaaggggc cgaccaagcg ttactttcat gatcagtgg 240
ccatgtacat gctgccatgg tactggtcgt gtggaagctc ttgacacatc gttttcaaag 300
atcgaacgtg aaatatgtcg acgtcttgct gcctctcgac gaaaatcaga ccctgagaaa 360
ccaaaatcat ggccaaggtt tctgcttaga gtggatcatg agatgtgcac gta 413

ggagcgctg ggctgtgctc tacatgatgc tgtccgagac cctacccttt tcttgcgcca 120
 ccgttgggga taactttcag gccttgtctc cgtataacct gcgcttcctt tgccaccctt 180
 ttgctcgcct ttttcacctt gtcaacgacc ttcttcgccc cattctttgc atggactttt 240
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<210> 39981
 <211> 352
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-050-Q1-K1-E1
 <400> 39981

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 accacttcga tttggcagge acggcggttcg gtgccatggc caagaatggc gaggaggaga 120
 agctgcgcaa ggcgggcatc atcgacatgc agttccgaag ggtcaagtgc aagtacggct 180
 ccaaggtcac cttccacctt gaaaaggggt gcggccccaa ctacctggcg ttgctagtca 240
 agtacgtcga cggcgacggt gacattgtgg cggtaggacgt caaggaaaag ggctccgaca 300
 cgtacgagcc cctcaagcac tcttggggcg ccatctggag gaaggacagc ga 352

<210> 39982
 <211> 442
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-050-Q1-K1-E12
 <400> 39982

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 gagatcttcc aggccgtgct ccgtgggaac ctgcgcttcc ctccgcgcgc cttcgcgcgc 180
 gtctcgcgcc aggccaaagga cctcctccgc cgcattgctt gcagggacgt ctggcgcang 240
 ctctccgccg agcaagtcct gaggcaccca tggattgtga ctcgcggcgt aagtgtgcct 300
 ggcggtagac tggtttagat gctccgccgc atccgatgtg tacatagtgg cgtcctccat 360
 ccaatccaag aggagtagag aaggaccttt tgcttgtgat ctcttcgcta tggttctggc 420

aaatgatcgt gaatttggac ac

442

<210> 39983
<211> 361
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-E2

<400> 39983

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aagaccacga ggccgtggta agaagctcca agaggaatgg gctgttccac tgaaatctgt 180
ggaggacatt agtgagcgtc tcacaaactt gtgtcaaggg aaactcacia gcagcccatg 240
gtcagaattg gacggtcttc aaccagagac aaagattatc gatgaccagt tggatgaatat 300
taaccagaag ggtttcctta caattaacag ccaacctgct gtaaatggag agaaatccga 360
c 361

<210> 39984
<211> 398
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-E3

<400> 39984

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ttgttgatga ggcacacaat tctggacgtg aagctatccg ttctgtggca gaaaatgaag 180
atacagaaga aactgaccat aagaaaccaa agcttgaagc tgatgcagtc gatacgaact 240
ccaacggaga accgaagcac gacgagaaag acgacagcaa ggtggaagaa gaggagctga 300
agactgagct cagcctacag gagagcgaca gagctagctc tgagaaggaa gcacagtccg 360
aaaacaggag acaagaaaca gaacctcca acgacgag 398

<210> 39985
<211> 411

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-050-Q1-K1-E4

 <400> 39985

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 cgtggaggcg gcggctactg cgggtggcggg cgccgtgatg gcggcggcggt ctaccgcgggt 360
 ggcgcgggct accgtggtgg cggcgggcgc taccgtggtg gtggcggcggt c 411

<210> 39986
 <211> 393
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-050-Q1-K1-E7

 <400> 39986

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 gttaaagaga tgggcgacaa gaaggcggtc accagctgct aattatgggc ctgcccacga 180
 ccatttttagt tgctgtcccc tggcactacc gggagggtgc catgccagga ttcaaccata 240
 taaaggatcc gatcagtttg caactgggca gggggactgg tatacctatg acgacgctgg 300
 cttcataccg gacagaacaa caggtattga aatcattgtg aaaaacaata aatggattgg 360
 aggggtttat gagggaggga gggaaaaagc aaa 393

<210> 39987
 <211> 395
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-050-Q1-K1-E8

<400> 39987

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cgatcggcgt ggtgctctcc gcgaagacca ccctggggga ggagttcgag ggccagatcg 120
tcgccttcga tcgacctcc aacctcctcg ttatccagga gggcgtgggg agggcggaga 180
gcggggagcg gcggaacgtg aggggtgctga aggcgaacta catccgggag ttctctgtgc 240
tcagcaaggg agacgacct ctcgacctcg ccggttgcg gctggacctt aactccattt 300
atgcccggga ggatgctgca ctgangcaag cggagattga agctgagaga attgggtgtt 360
gtgtcacccc agaagctcaa aatatattcg atgcg 395

<210> 39988

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F1

<400> 39988

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ccccaggca agaacatcac ggccacctat ggcaaggact ggctggacgc taaagcgaca 180
tggtatggca agccgacagg tgccggtccc gacgataacg gtggcggtcg cgggtacaag 240
gacgtgaaca agccccctt caatagcatg ggcgcatgcg gcaacatccc catcttcaag 300
gatggtctgg gttgtgggtc ctgcttcgag atcaagtgcg ataagcctgt ggagtgtcc 360
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<210> 39989

<211> 460

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-050-Q1-K1-F10

<400> 39989

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gtaaaaaatc cttttgaaga tgatcaggtt gttggcatta caaactacat cgatttttga 180
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 acagctgtga atgatcattc aaagggcaca acatcgatatg gatttggcct ccgtgtcgag 420
 gaccttanac gagcgagtaa ccacgagctg atccaaaacta 460

<210> 39990
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F11

<400> 39990

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 cttctgccgt ttggccagg catggctatc cgteccaccac acgggcgacg gtcacgccgt 300
 acgtgggtcc gccacatcca cggcttctcc cgcgccgtcg gccgtacggg gggaccgtcc 360
 aagatgtcgt acgctgcggg agtggcgggc acgttcttgg atggtcttgt cctcgtc 417

<210> 39991
 <211> 459
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F12

<400> 39991

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 tatgtacttt catcttttga agttgatgta ccattctcct gtgacatctg gttaccacca 180
 gagcgtgtgg gcaagaatag gccgggctgt aaaccctgac atttaccgct atgcgccatt 240

cctgaacaca cctatttcgg cagtccagag atggtggctg aggtaggaaa gcatggaccg 300
cagcacagtg aaaatatgcc taaacagcta ctctgatctc agcgcctcga tcttttagaa 360
ggcgtgcttg cacggcgtgt tcttttcttg taaagggttg attctcagtt catgtcttac 420
tgagctactg aaggcataac actaggagaa tttcttacg 459

<210> 39992
<211> 316
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F2

<400> 39992

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agctgctggt gtgggcgctg cccgatgaag atgatgttgt agacgagcgc cgcatggcc 180
gcgcccgcga gtgggcccgc ccaatacacc cagtggttct tocagacgcc ggtgacgacg 240
gtcggggcca aggagacggt ggggttcatg gaggcgccgt tgaatgcgcc cccctgctcg 300
gacattgggg cccttt 316

<210> 39993
<211> 406
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-F3

<400> 39993

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acgccaggtt ccttggacca ctatatgcag gagcgacgaa atgatccacc cgccagccat 120
ggagatgaag aaggctctct gcgcgcct cgtcgccgcc gccttggcca ccgacgtgct 180
ggcctcggtc gcctccgagg cgccctcga ggcgccgcc ggcgcggccg gtggtgcggc 240
tggccctatc gcaagcggcg ccgcgcgcgc cgccgtgcc gccgccggg cgctcgtcgc 300
cttcttctc gcctactacc tgcactgagc gacgacgcgc gggcgggcaa cgttgggatg 360
catcgtgttt gggcatccg attaattaat tgggtttttt atttac 406

<210> 39994
 <211> 234
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-D8

<400> 39994

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 cttagtagta tatatgggta gcggagcatg ctctctcatg caatatatat aaacttaatt 180
 agcttgctgc tgcaagttca tagcccaccg agccggatga attgtaggga attg 234

<210> 39995
 <211> 382
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-C2

<400> 39995

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 caagaccagc tcttctgttg agaagagcta cgagctgcct gacggacagg tcatcaccat 180
 tgggtgctgag cgcttccgct gccctgaggt cctcttccag ccatccttca ttgggatgga 240
 agctgctggt atccacgaga ccacctacaa ctccatcatg aagtgcgacg tggatattag 300
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 tgacaggatg agcaaggaaa tc 382

<210> 39996
 <211> 394
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-C3

<400> 39996

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tgtgcaatgc aatgctttgc caactttgat cttaatgctg cgatctgaag atgctgcaat 120
 tcactatgaa gcagttggtg tcattggaaa tttggttcat tcatcaccaa agatcaagaa 180
 ggaggttctt aatgcagggg cactgcaacc tgtgattgga ttattaagct catgttgtag 240
 agaaagccaa agagaggctg ctttgttgct agggcaattt gcttcggccg actcggattg 300
 caaggtccat attgtgcaaa ggggtgcagt ctgtccacta attgaaatgc tacagtcggc 360
 tgatgtccaa ctccgggaga tgtctgcttt tgca 394

<210> 39997
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-050-Q1-K1-C4

 <400> 39997

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 atttttgcga gaggttctta ttctgcaaaa cttaaagtttg ttgatgatga tggcaagtgc 180
 ttcttgagga tgagttacta ctttgagatt agaaaggagt ggccaggaac tcaatgatgt 240
 gtggaccagc atggctgact cgtcggagta tgtagagct catagctaag ccaagcacia 300
 gatgtggact catcttcaag aatgattttc attcgctact tcatctttaa tcgcatttta 360
 atttgttttg aattgtcatt gtacgtcggt tatgacatan aactgtttat tcatcacata 420
 tataattcat gtatcgagat atatat 446

<210> 39998
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-050-Q1-K1-C5

 <400> 39998

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 atagcgcana acatagtcac tgcagggctg aagcgtagaa caatccattg aagaccggaa 120

catgctccca aatcatcctg ctacaaaact tggtagagca aggtacaaa caaagggttc 180
acagtttgat gattttgaca aatgggactt tgcgtgcacc gcagcacctt acgccttgag 240
cttaccaaag aacctctgct tctcatcggt agtctggaag cgaccgtgcc caaatttgga 300
cgatgtgtcg atgaacttga gcttgatctc ctccagcgcc agccgggaag tctgcttcag 360
gagggactgg cggaggggtca ccaccctctt ctttggaacc acacagcatt cctcgatcat 420
cangtaggca cccttcacga taccatagtg ggg 453

<210> 39999
<211> 345
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-C8
<400> 39999

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ggaggaggcc aggaggtttt cgttcgctcg ttcgccttgc ctggggacgg ggttgccgtt 120
ggcgccgtan aggtcccaga gctcctggac ctggccgacg agctggcgca gcgcggccac 180
ctcccccatc gccaggccgc cggcgccgca agcgcgcgcg cgccgncggc cttctcaccg 240
cgccccctca ctgcctctgt cgctcgcccc ctctctacc tegtcttcg ggtcggggtc 300
gggccttcg gtcgcaccct ccctttcgc ttcgctaaat ggaca 345

<210> 40000
<211> 419
<212> DNA
<213> Zea mays
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<400> 40000

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tgtgtccgag ctctccaaca aggatttcga ctcatatgtc ctttctgagt caagcttggt 180
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tccaagaatc cttgagcttg ctgaagagct gtctatgcca cttgctgctg tgaagtactc 300
ccgtgggacg ttcattcttc ctggcgacaca gccagccccc cacaggagct tctctgagga 360
agttgctgca ctttaaccgct actttggcgg cctgaaatct ggtggtaatg cttatgtga 419

<210> 40001
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-D10

<400> 40001

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cggcgacgac ggggtgggtcg tgccgccggc cagcgacggc ggcaggtaca accagtgggc 180
atccaagaac cgcttcctcg tcggcgacgt cgtccacttc aagtacagcg aggactcggt 240
gctggtggtg acggaggccg actacgacag ctgccgcgcg tcgcaccccg tcttcttctc 300
caacaacgga gacacggagg tgacgctgga ccgcccgggc cccgtctact 350

<210> 40002
<211> 394
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 40002

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atcggtgaaa gagtttcgtg ggcgattgga ggaatggttc tcacagctgg ccttattttt 180
atcagcaaaa gaaagagcta cagccatcac cagaagcaag ctgctattgc tcgcaatatg 240
agattgagaa ggctggattc tagagccaac ccacaacaaa caaagcggag ctaggaaggc 300
atangcaact tagtggtact cagaggattc ttggacttgt gcttctactt ttgtggatcg 360
gtataatcaa caactgtgaa caatagattg tact 394

<210> 40003
 <211> 329
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-050-Q1-K1-D12

 <400> 40003

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 ttcacgtcgt cagccgtgcc gatgctgatg taatgggccg ggaaagggaa accaaggtcc 120
 acttaattag cttcttttgt tacacaggac aggacaggac acaaaaacac cctctttttt 180
 gttgtagata taaacaaatt aagggagtca cagtacacag agagagttgg tgttcttaga 240
 atgcaggcac actggtgagt tttaaacaag ggtgccagaa ttacttatta gctgtgccat 300
 aataataata ataataataa gatcgtcgc 329

<210> 40004
 <211> 327
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-050-Q1-K1-D3

 <400> 40004

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 tgactggggtc taccggtggc ggccacggtg aactgcgcgg acaacacggg cgccaagaac 120
 ctctacatca tctcgtcaa gggcatcaag ggccgcctca accgcctccc gtccgcctgt 180
 gtcggcgaca tggatcatggc caccgtaaaag aagggaaagc ccgacctcaa gaagaaagtg 240
 atgcccgccg tcatcgtccg ccagcgcaag ccgtggcgtc gcaaggacgg tgtctacatg 300
 tacttccaag ataatgctgg agtgatt 327

<210> 40005
 <211> 355
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-050-Q1-K1-D4

 <400> 40005

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ggcgttcggc cttgccgacg tgttcgtctt caccgctggc cgcgcacgga tcattatgct 120
 gccaaagccg cccacgacca gcttcgggtc cgtctccatg ggaggaggcc attgatgac 180
 acaactgtag gatgcatggt ccactgtggt tcacgattct tttacctttg tgagggtggac 240
 ggccaggtgt ttgttgtcaa ggccgcttcc gaggcctaaa ccggtgggct tatttctagg 300
 ccggatcatg acgaacaatc tgattcgctg ggttgcaaag gaaaagtttt acacg 355

<210> 40006

<211> 344

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-D6

<400> 40006

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 aaggtaacca aaggaggtta ccttgagggtt ggggttcaaa catatggtgg tgggttgtgg 120
 tacacatggt ttgaccgtga tcttactgta gctggtagag tgattatacg ggagaagaat 180
 gatggcgagg tctcttatgc acacaagctt gtacgggtac aggaaccaat tatgcggata 240
 cctacttttg ctattcacct ggacaggact atctgctcag aaggctctca gggttaacaat 300
 cagagtcacg ttgatccagt gctggctaca tgtatcaaga atga 344

<210> 40007

<211> 377

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-D7

<400> 40007

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 aaactcttgg agagagaaaag caagctttca atgagtactt gaaccagcgc aaaaagtttg 180
 aagccgaaga aaaacgtatc aaacagagga aagcacgtga tgatttcctt gcaatgttgg 240
 aagaaagcaa ggagcttaca tcatacaaa gatggagcaa agcaatactt atgtttgaag 300
 atgatgaaag attcaaagca gttgagcgtt caaggagcgc tgaagattta tttgagaact 360

atcttgtgga actgcat

377

<210> 40008

<211> 399

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-C12

<400> 40008

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 gggttcgcca tcaccggctt catcatcacc aagatgacgg ccaacttcac cgaggaggac 180
 ctcaagaact ccaagtctgt ccaggaacac aagaagcgt gaccaaccgg gtggagtcgt 240
 ccgaatcgcc tgcggatgaa aaattagccc tctatctttt ttgtctttt tttttatcta 300
 gatgcgtgca ctctattgta ataatgtaat aagaggcaat tggattgatc caacagcaac 360
 cggcttctga ttttgatccg cttecgctgac atatgcatg 399

<210> 40009

<211> 456

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A9

<400> 40009

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 cgcacatctg ctgctcgctg cacttcaaga gattcgatcg ggttcgcccgg ttccgcgccg 120
 ccgccatggc gacttcctca ggaccaaagg aggcgccagc gaataaccct gggctccaga 180
 ccgaggtcga ccccgccacc aaaggctact tcttgcaaca aacgatgtta cgtgtgaagg 240
 acccaaaagt gagccttgac ttctactcac gtgtgatggg catgtcgttg ctgaaaaggt 300
 tggatcttga agagatgaaa ttcagtttgt attttctagg ttacgaggat gtgaccttag 360
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<211> 408
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-050-Q1-K1-B12

 <400> 40012

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 cataaactct cagcttgagc atcttcaagc caaatatgtt ggtacagggc atgctgattt 300
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<210> 40013
 <211> 430
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-050-Q1-K1-B2

 <400> 40013

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 aacgaatgcg agactgcaaa tcagtcttat tcaaatgcca taactctttt taagcatttg 240
 cccaaaggat ggattagctg gggaaattac tgtgatatgg tttttaaaga aacaaaagat 300
 gaggtttggc ttgagtatgc agtcagttgt tttttccaag gcatcaaata tggagtttca 360
 aactcaagga gccatctagc tcgaattctc taccttctta gctgtgatgg acaaaatgaa 420
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<210> 40014
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B3

<400> 40014

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gaaaggctgt tgattgtagt tacgttcgag gtctgcata cttggagggtg gacgttgaca 240
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<210> 40015

<211> 391

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B4

<400> 40015

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ctactgcgac acctgccgcg ccgggttcgt gaccaatgtc accgagtaca tcgcgggcgc 180
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ctgcgaggtg gtcttggtgg agagcccgcg caaggactgc gaccaggtgc aagcggacag 360
ggaccgcgcc ggcgttctgc tcaccaggaa c 391

<210> 40016

<211> 460

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B5

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cttcacataa cattgctcat ggggtgaacc taaagaaatc ccctgtactt cagtacctgt 120
 attatcttgc tcagattggc ctagcaatgt ctccttaag taacaactca ctgtttatcg 180
 actatcatcg gaaccctttc ccaacatttt tcttaagggg tcttaacgtg tctctttcga 240
 ctgacgaccc tctacaaatt cacctgacga aggaaccttt ggttgaagaa tacagtgttg 300
 ctgcttcact ttggaagctg agctcatgtg acttgtgtga aatcgctaga aattctgtct 360
 accagtccgg attctctcac aagctcaagt ctactggat cgggagaaac tactacaaga 420
 agggtcggga gggcaatgac atccaacaga caaatgtttc 460

<210> 40017

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B6

<400> 40017

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 tccaatcttc ttcactgggt cctccgctgc ttctagtcac gcactctaat ccggagttgc 180
 cagcattcgc ttgaggtgcc tgacaaagca caccatcatg caggctagcg ataggttcaa 240
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 gtctagattt gaatgggctg taaacattca gagagacagc tatgcctctt atattgggca 360
 ctatccaatg ctagcatatt ttgccattgc tgagaacgaa tcgatcggaa gagaacgtta 420
 caatttcattg cagaaaatgc t 441

<210> 40018

<211> 409

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B7

<400> 40018

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 gattggctag atgccaaggc gacatgggat ggcaagccga caggtgctgg ccccgacgac 120

aatggtggcg gctgcgggta caaggacgtg aataaggccc ctttcaacag catgggcgcg 180
 tgtggcaacg tccccatctt caaggacggt ctaggttggtg gatcctgctt cgagatcaag 240
 tgcgacaagc cagcaaagtg ctctggcaag cccgtgggtg tgtacattac ggacatgaac 300
 tacgagccca ttgcggcgta ccacttcgac ctacgaggca ccgcgttcgg tgccatggcc 360
 aagaaggggtg aggaggagaa gttgcgcaag gcgggcatta ttgacatgc 409

<210> 40019

<211> 331

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B8

<400> 40019

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 ggtacagtgg ctctgtacat gcggtttgct acatcactta ttcattgagat caccaatgca 120
 ctcgggatcc actgcttcag gatcactagg aaaaaggcat agttcctccg tccacgggca 180
 tcaacgttgc cctggattgt gtaatcaatc acaactcaca aggtggagcc tgacagacaa 240
 gcaatttttc atatttaaatg gatgctgctt cctgaatact cacatggatg acgccccccc 300
 ccccgctcct gtggggcggtt ataatttaaa t 331

<210> 40020

<211> 386

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-B9

<400> 40020

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 acacactcac catgttctctg catgatgtgg gagctctgga ttaagaaatg ccatgatgaa 120
 tcagaaacag tgaattggat aactgtaaat actaagccct gtcccaagtg tcacaaacct 180
 gtggagaaga atggtggctg caacctgggt gcatgtatat gtggacaagc attctgtttg 240
 ttatgtggtg gtgctacggg tagagatcac acgtgggtcaa gtattagtgg ccacagttgt 300
 ggccggttca ctaatgatca gactaagaag accggacaag cagggaagac ctctatagat 360

atatgcacta ccacaacaga tacaag 386

<210> 40021
<211> 396
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-C1

<400> 40021

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atggtaattg gatcgagatt ctacgcgtgg ataacctggt catcaccggc aagggaacc 120
ttgacgggca gggcccagct gtgtggagca agaactcctg caccaagaag tacgactgca 180
agatccttcc caactcgctg gtgatggact tcgtgaacaa cggggaggtg tccgggggtca 240
cgctgctcaa ctgcaagttc ttgcacatga acatgtaccg gtgcaaggac atgctgatca 300
aggacgtgac cgtgacggcg cccggggaca gcccacacac ggatggcatc cacatggggcg 360
actcatgcgg gatcaccatc accaacaccg gcattg 396

<210> 40022
<211> 398
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-050-Q1-K1-C10

<400> 40022

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tggtttttga caccgccacc gacctgacgt ggatcaactg tcgtctgcgg cgccgcaagg 120
gcaagcacta tgggcgacag tcgatggggc agacgatgtc ggtgggcggg gaaggcgcgga 180
cggcgggcgaa gaaggaggcg agcaagaact ggtaccggcc ggccaagtcg tcgtcgtggc 240
gcaagatccg gtgctcgag aaggagtgcg cgggtgctgcc ctacaacacg tgccagagcc 300
ccagcaaggc agagtcgtgc agctacttcc agaagacgca ngacggcacg gtgacgatcg 360
gcatttatgg caaggagaag gcgactgtga cgggtgtcg 398

<210> 40023
<211> 407

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-050-Q1-K1-C11

 <400> 40023

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 acttttttat cagaatggga gatgtgaaaa gagtttacca tggagtaagc agagtatctg 120
 tagtctgacg ctccaaagtt gatgccatca aacacgaagg ccaggaatt gatggtctgc 180
 gtcccggcga caaactgaac cgagataaaa gatgtctaata tcagtgtctg aatcttgtga 240
 aatgcttgcg tatggagcgg cgttgtttcg atagccaggc cagggcacgt ccttaccggg 300
 atgcctctgt gaatgacttg gatcacgggc acgtcgcttg tgaaaatgcc agccccgaac 360
 ctcatagcaa gtcccagcac gacggtgaga cccatgcccc ggacaat 407

<210> 40024
 <211> 209
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-050-Q1-K1-A8

 <400> 40024

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 aaggacagca tgggtgagggg gggcgtgctc aatgatgctc tcaagtccat gtacaatgct 120
 gaaaagatag ggaaacgtca ggtcatgac aggccgtcat ccaaggtgat catcaagttc 180
 ctgacggtca tgcagcgcca tggtacat 209

<210> 40025
 <211> 369
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-049-Q1-K1-H2

 <400> 40025

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 ctgaatggat agattttgca agaggctccg aaagacttcc aagtggtaag tttattccag 120
 ggaataacaa cagttatgac aaatgtcgtc aaaaattgac cttggggatg cagactatct 180

taagtatcat ggtatgcaag agtttgatca ggcaatgcaa catcttgagc aaaaatatga 240
attcatgaca tctgatcacc agtatatttc ccggaacat taggaggata aggtgattgt 300
gttcgaaaag ggagatttgg tatttggtgtt caactttcac tggcacaaca gctattttga 360
ctaccggat 369

<210> 40026
<211> 457
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-049-Q1-K1-H3
<400> 40026

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ggggccatgg ccaagcccc gggtcagacg gccgccatca tcttctcgt gctcctcgcg 120
accgcgtcgt gcctccacac cgtcgacgcc gccgctttag ggttttgctg gggcaagtgc 180
agcgctcggg gcgcgcgggc aagcgcgcg cgggcgtggg ccgcgtgcat gagctcatgc 240
ggcctctgct gcgaggagtg caactgcgtg ccgcgcgaca tccatgactg ccctgctac 300
agcaacatgt tcaccaccgg cccaagaag atgccaagt gccctgaga ctgagactgt 360
gaggccggct cacactgcgg catccatggg actgcgactg ctgcctacaa ctacgatccg 420
atccatgctg ggccagacaa ccagttatgc atgttat 457

<210> 40027
<211> 420
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-H4
<400> 40027

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ggctctgcga gcaagagcaa tcggccttat gccatgatt gaccagggtg aaaaggatga 120
caagataata gcagtctgtg ctgatgatcc tgaatatcgt cactacaacg acatcagtga 180
gctgtctcct catcgctgc aagagatcaa gcggttcttt gaagattata agaagaatga 240

gaataaagag gttgctgtcg atgcattctt gcctgcgacc acagctcgag aggccattca 300
gtactccatg gatctgtatg cgcagtatat ttgcaaagc ttgaggcagt agattggaag 360
caactattta tctgggcgtc ttggaatgag tgtgattnta ataagtcaaa acacttgata 420

<210> 40028
<211> 449
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H5

<400> 40028

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cggatccctt tatttggaag cgctatgctt ttatcactgt tgcttctatt caagtttctc 120
tcaggagatg tggccaacgc tgagctcact gcctactttt tcattctagg cattgttgct 180
ctctccgcaa cactgcttcc ttctataaaa cgttttcttc caaaagagtg gaatgataat 240
ctcatcgtct ggcgggctcc attctttcac tcaactctcg tggagttcac aaagtcccag 300
attgttgctt caatacctgg atttttcttt tgcttggtgt atgcgtcaaa gaagcattgg 360
cttgcaaaca atgtcctggg attggctttc tgtattcaag ggattgagat gctgtcattg 420
ggatcattta aaactggagc cattctctt 449

<210> 40029
<211> 324
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H8

<400> 40029

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caccaagaac cagacctcg ggtggggcat cggggtcgcg gaggtctact ggatggggtc 120
aagaagtatc cgggcaagtc gtctctggga accctgctta ttgctcgccg gatgctagcg 180
ccgccgtgga ctgcgcggct ccgagaagtc gaggtcgtcg cgacatatcc caggaaacctt 240
cggacttgga acgaagctgt ccataatatg gaaagcatga ttgggacgaa ggtcgaatca 300
attctgaagc tatgcgcaag gaag 324

<210> 40030
<211> 451
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H9

<400> 40030

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aatgtgcaag aggatggggt ctatttggtg gaaaacggtg aggatgggtct agtctacgta 120
ggaaatatgg taaatccggc taccctggaa caaatattcg gtgtctcttc ttgggctgca 180
ttaccagccc agttagcatt ggagcagttt gacaacgaac tctctgagga agattaacga 240
agttgtaaat gaaattagga gccagaggtg ctcatacttg aggataagac tatgcacaag 300
gggcgaacca tctgggtgatt tttccgggtc atttctaata gaggacaagg cacctggcgt 360
cttctcctac gacgagtttc tcgtgcatgt gcacaggcag atccaaagca agatgacctg 420
agggccaggc gaatgcaagg caacatgaac t 451

<210> 40031
<211> 168
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A1

<400> 40031

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ccgatatact atttgatgca agcggactgg tcaaattggc agattttgga cttgcaaagg 120
agatgtcaat tttaggccag gcaaaatcta gcaagggaac tgtctact 168

<210> 40032
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A10

<400> 40032

gaagagagca acaaaaatta ttcattctcag ctaaattggtt tcatgaagtg gttagaaaga 60

gaactgttgc agttcggctt ccattctgag agtgccaatg attatgatta cactcaattt 120
cctgtctata tggatatgtt ggacaaaaaa ataggatctc tgatagccga atcagatgat 180
ttaagggtta cagttcaaag caaagattct ttactacagg ttgagagggc caaaattgag 240
gagttgatgc gtaaatacaga tgggtctagaa gcttcattga gccaaaagga ttcccagata 300
gggttacttc gccgggacag agcatccaat cagcagagca gatctataaa tttgcctggc 360
acttcagaga ttgagcaaata gaatacaca gtaagcccag ctgcagttgt cactcagatt 420
cgaggcgac g 431

<210> 40033
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A11

<400> 40033

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ctagtgtcca tgcacattta ggacgtactg gtagcagaag ggatgatctg gaatcattag 120
catatacatt gatattttctt cttagaggaa ggttgccgtg gcaaggttat cagggcgaga 180
acaagagttt tcttggttgc aagaagaaaa tggctacctc tccagatcta ttatgctgtt 240
tttgcccaac tccattcaaa cttttcctgg agactgtgac aaacatgaaa tttgatgaag 300
aaccaaatta ctcaaagctt atttcccttt tcgatgaatt gattgagccc cagcatttga 360
ggcctattag aattgatggg gcattgaagt ttttttttca ctacaagaaa tgacatttct 420
attttgtata caatta 436

<210> 40034
<211> 282
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-050-Q1-K1-A12

<400> 40034

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ctcagccctc atgcaagccg accgccgacg taccaccgag ccaacccgag agaaagatgg 120

agatgatcaa gaggatcctc atcgccgcgc tcctcgtagt cgccgtctcg gccaccgcag 180
 tgctggcctc caccgaggcc gccgcgccg gcgccccagc cgtctacgag tcgtatgcgt 240
 gcgccgaagc cctcgatggc gccgtcggct ccggagtcgg ac 282

<210> 40035
 <211> 390
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-050-Q1-K1-A3
 <400> 40035

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 tgctgtgcat ggtgagaagg caaagtcaaa ggacaacgat gcaaaagcgt ccggggcccgg 120
 tgggtccttc gacatcacca agttgggcgc ctccggcaat ggcaagacgg atagcacgaa 180
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 tggtaattgg atcgagattc tacgcgtgga 390

<210> 40036
 <211> 397
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-050-Q1-K1-A5
 <400> 40036

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 taaagaatta cagaaactct ctgcctctgg tgacagtaaa agccttcctg aattgctagc 180
 tgagctagat gggctaagga aagagcatct taatttacga tctcaatttg aatttgagaa 240
 aaatacaaac atcaagcaag ttgagcagat gcggacaatg gaaatgaact tgatgaccat 300
 gactaaacaa gctgagaagt tacgaggtga tgtggcaaat gctgaaagac gggcacaggc 360
 agctgtggct aaagcaacag ggcattgcage tggtgca 397

<210> 40037
 <211> 359
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-050-Q1-K1-A6
 <400> 40037

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 atcgcacatc acgggcgcg ccaaaatgcg ggagccgtgc gctgcgaagt gcggaagcgc 180
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 caccggtatc gccattcgcc agccatggaa tccgcaacgg cggccgtccg cagcgcgtcg 300
 ctagcccggg cccgggcgcg gccgctcggt cacaggcgcg cgcgcggggc gggtcgcgt 359

<210> 40038
 <211> 433
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-050-Q1-K1-A7
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 ttgctctgca tggtaactgga cggcactgcc acgtgcttcg gcattgccat caaccaaacc 180
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 tcaaagaatg cagcgagctt actgcttctc atctgcgcat tgctgtatgc cttctaataa 420
 gtggtgatac aac 433

<210> 40039
 <211> 387
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H11

<400> 40039

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aaagacaaaag ttaattgagg cgaaagagaa tgatgttgat gggagggtt actacacttt 180
tgagttcaca gctcaggctc caaactacac aagacatgca cttggtgcta ttgtaattgc 240
aaatggcaaa ttttacacat tgaccactgg agcaaacgag agaaggtggg aaaagatgaa 300
ggatacgctg catactgttg tggattcctt caaaatcgaa aatagaatat gagtgacctga 360
attgctgtgc tgtttttcct tcggtga 387

<210> 40040

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-F5

<400> 40040

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gtcgggtgccg ccgtcgcgg cttcccatc ggtgcggctc gtgtcccgcg cggttaagaa 120
taaagcaagt gcaatctatg acctccaaag gaatagaagt aaccttgaat cgttattctg 180
ctacgacaaa tctgtcccag aggagaatat tggaaaaccg tccggtctag atctggaaaa 240
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cgcaacatgc gctggttcag gcttgtacgt cgactcgata ctagagagcc aagggatcat 360
cgtgaaagtc agatgcctag gctgtggaag aactgggaac atcatgtgct ccaagtgtgg 420
aggccccggg catacctgaa tgataaaaag cttgg 455

<210> 40041

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-F7

<400> 40041

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 gccagactgt ccccatctac gagggatacg ccctcccca cgccatcctt cgtctcgacc 120
 tggctggccg cgacctcacc gactacctca tgaagatcct gactgaacgc ggctactcct 180
 tcaccaccac tgctgagcgg gaaattgtca gggacatgaa ggagaagctc gcctacattg 240
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 acgagctgcc tgacggacag gtcacacca ttggtgctga gcgcttcgc tgccctgagg 360
 tccttcttca gccatccttc attgggatgg aagct 395

<210> 40042
 <211> 367
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-049-Q1-K1-G1
 <400> 40042

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 aagtgatgaa ccgtcggcaa ccttgtttct cttgcacttt aagcagctaa ctgttcccg 120
 gtaggacgct ctctgcaat aaatcatggc agctgttaag aacgggtggtt cagttgctct 180
 catatggtct gaagaaacgg tgcttcagtc tttagcattt tgaggaggaa acgtgaaact 240
 tactggtcag ctgaaagcta taaacattgc catggccctg gactggaagc cccaactttc 300
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 tccggca 367

<210> 40043
 <211> 374
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-049-Q1-K1-G10
 <400> 40043

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 cgatctactt aaagactggg atggtagctc caaggagttc aaagaactgg acatcgaaca 120
 gttcaaaagg gcccttgctc aagtggactc tcaagtcaag atgctcccag caacagctca 180

<223> Clone ID: LIB3075-049-Q1-K1-G9

<400> 40050

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aaaaaaaaa aaaaaaaaaa atataaaaaa aggggggccc ccttttttaa tgcaaatttt 180
ttttccccc tttttctaca aaatatTTTT tttttttt cctcaaaaaa aaataatcgc 240
ccccgcgtt taatacccc tcctttgaaa aacccccctg tcccccaat tatatcctt 300
ttaaaaaaa tccctttttt a 321

<210> 40051

<211> 449

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H1

<400> 40051

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ggatcccttc ggacttcgc agattccgc gcgggggtgt ttgatttga tgagaggagc 120
gcggcggcgg gatggggacc ccttcgcagg gctcggcgac cgtgacggcg gcccggtcg 180
acctctgcgc gctcgacctc atgccgtct ttgccaagga gatgatgcc ggcggcgctc 240
ccggcgctt ctccaaaacc gccatgcgc cgctcgagcg cgtcaagata ttgctgcaga 300
ccagaacaaa tgagtttggg tctcttgag ttctcaaata attgaagaaa ctgagacaac 360
ttgatggagt catgggggtt tacaaaggaa atggtgccag tgtgatgaga attgtcctta 420
tgctgcatta catttcatgg catatgagc 449

<210> 40052

<211> 340

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-H10

<400> 40052

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gtgggtcatag gcaagggccg gctggaaact tactaaatca tcttcctcgc gctcctcgcg 120
accgagtcac gccttcacac cgtcgacacc gccgctttat ggttttgctg gggcaagtgc 180
agagctcagt gcgcacggtc aagctcacac aggacatggg ccgcgtgcat gagctcatgc 240
agcctctgct gctaagagtg caactgcttg cccaacgaca tccatgactg cccctgctac 300
agaaacattt tcaccacctg tcccaacaat atgcccaagt 340

<210> 40053

<211> 457

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-E11

<400> 40053

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aagtatgctc tcaaatatga aaatgatgct ggcaagaagg aaattcagct gcagcttgag 120
aagatgaaga aatatgcttc tgttatccgt gtcattgctc ataccagat taggaagatg 180
aagggtttga aacagaagaa ggctcacctg atggagattc aggtcaatgg tggtaaccatt 240
gctgacaagg tggactacgg ctacaaattt tttgagaaag aggtccctgt tgatgctgtc 300
ttccagaagg atgagatgat tgacatcatt ggtgtgacca aaggtaaagg ttatgagggc 360
gtggtcactc gttgggggtg caccgcctt ccccgcaaaa cccacagggg tctccgcaag 420
gttgcttgta tccgtgcatg gcatcctgct aggggtct 457

<210> 40054

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-E12

<400> 40054

gcgacagaga caagagctac aacagcttgt ccaagaacag cgctgaggca ctgacgcacc 60
ggatcaagac taggacgaag aaggccacac gcgagttcct gtgcttgaac cccaggttct 120
cctccaggct cagctggagc tccacctgga agaacacacc ctgaggccgt gccaaagagca 180
actacttgga caacgtcaca cacttcagct tggacaaact gaagctgcag agggtaacgc 240

acaccgtcaa ataataactt tagtgctgac aatacttt

458

<210> 40057

<211> 393

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-E5

<400> 40057

cccacgcgtc cgtctcgatc cacatcggcc aagccggtat ccaggtcgga aacgcgtgct 60
gggagcttta ctgcctcgag catggcattc aggctgatgg tcagatgccc ggtgacaaga 120
ccattggggg tggatgatgat gctttcaaca cttcttcag tgagactggg gctgggaagc 180
acgtccctcg tgctgttttt gttgaccttg aaccaactgt catcgatgag gtgaggactg 240
gcacctaccg ccagctcttt caccctgagc agcttatcag tggcaaggag gatgcagcca 300
acaacttcgc ccgtggtcac tacaccattg gcaaggagat tgttgacctg tgccttgatc 360
gcatcaggaa gcttgccgac aactgcactg gtc 393

<210> 40058

<211> 405

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-049-Q1-K1-E6

<400> 40058

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caaccgccgg aaccggcgcc accgcaagac ggggaaggag aggacaacta ggaggaaggg 120
accgccacca atatatatca cacacacaca cactcacaca ttctcacact caagtctgctg 180
tttgccatctt ttcttttctt tttctctacg acgcttcggt attccctcct ttcattctatc 240
tctccngaa ctcggtttgt cgtccagctg gctgtaagtg taccagatgc cttcggttacg 300
tctgatgagg ctcatgacaa tggcgatttt ggcattggagc tgtgttagcc tcgcggaata 360
actgtaactg tgtaagcaga actgctatat attggctcta acaat 405

<210> 40059

<211> 387

gtcacggtgt acatcactga catgaactac gagecctatcg ctccctacca cttcgacttg 420
agcggcaagg 430

<210> 40062
<211> 439
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-F10

<400> 40062

gttgcattgtc atcgatgggt gtcctcagct tatctttgtc agatcaaatt atacaattga 60
gactgtagag gctgagagga tgtctgtgga ccatgttgcc catctcaaac catctgatgg 120
tgggttcagca gcaactcagt tggctgctca tcttacagga atacacagtg ccatcaagat 180
gctcaatagc aggggtccgtg ttatccatca gtatcttggt gccatgcaaa aagggtgacat 240
tccaatggac aattcgctgc ttaggcaagt ctcaagcctt gtaagaaggc taccggctac 300
ggaatcacag aaattccaag atgactttnt aatggaatac aacgacactc tcctcatgac 360
ttacctggca atgttcacta actgttcaag cacaatgaat gagttggtcg agaaaatcaa 420
cacaagctat gagagaccg 439

<210> 40063
<211> 376
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-F11

<400> 40063

cccacgcgtc cggacatggt caagagcaca tatgagtcca tcaccaagg aaatcctatg 60
tggaatgagc tgccagtctc aacaagcact ctctatccct gggatccatc atctacatac 120
atccatgagc ctcttactt caaggatatg acaatgactc ctctggccc gcgaccggtg 180
aaggatgcat attgccttct gaactttggt gacagtatca caactgatca catctcgctt 240
gccggaaaca ttcacccaga cagcgcagct gcaacatatc tgaaggagcg tgggtgttgaa 300
aggaaggact tcaactcata tggtagccga agaggaaatg atgagatcat ggctagggga 360

acctttgccca acattc

376

<210> 40064

<211> 462

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-F12

<400> 40064

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cggtcacct tccaggtcag cgagggctcc aagcctggcc acttggtcct ccccccaac 120
gttgccacca tctctgacgt ggagatcaag gagcacggtg gcgacgactt ctcctttacg 180
ctcaaggagg gtccgactgg cacctggacg cttgacacca agaccccgct caagtacccc 240
ctctgcatcc gcttcgctgt caagtccggt ggctaccgca tcgccgacga cgtcatcccc 300
gccaatctca aggccggcac cacctacaag accaccctca acatctaatt agcctcttat 360
gacacataat attttgagag agctcatctg gaccaagtgc cagcgagcta atatttaatt 420
ttcttctttg ggtatattga ggcaccacac gagccaagaa aa 462

<210> 40065

<211> 397

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-F2

<400> 40065

ggaagaccaa catgctgaca gctctcttgg ttccttacat tttcttcacc ctgcctaattg 60
tgctgttttc tctgatcaga ggagaggtgg ggaaatggat tgcgattatt gctgttattc 120
tgcgctctatt ctttccacga cacttcccag attgggttaga gcttcctggt tccatcatcc 180
tgctcacagt ggctgccccct agcctgttcg cggacagctt caggggagac ctcgttggtg 240
tcttcatatg ccttgtgatc ggatgctacc tgctccaaga acacatcaag gcgtcaggtg 300
gattcaggaa cgccttcagg aagggaatg gtgtgtccaa ctcccatcgc atccttctgc 360
tcttcatcta ccctgtctgg gccggtgtgc tgcaagt 397

<210> 40066

<211> 397
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-049-Q1-K1-F3

 <400> 40066

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 agtgagggtc ttgattttgc tgatcgtgct gggagggcag taatagttac tggaatgccc 120
 tttgctactc caactgatgc caagggtcgg ctcaagcgcg agtatttgga taagcagggg 180
 acaccatcta ataaaaacac aaagatgttg acaggagaag aatgggtatgt gcaacaagca 240
 gcacgggctg tcaatcaggc tgttggacgt gttatcagac atcgccatga ctatggagct 300
 attatttatt gtgatgaaaa ggttgngtgg ccaaattatc aatctcagat gtcattttgg 360
 ctccgacctc atataaagtg ctactcaaag tatggggg 397

<210> 40067
 <211> 459
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-049-Q1-K1-E10

 <400> 40067

cagtttagctc acctcccccg ccagttccccg tgagctcagc acccccattt gcaaaaagtcc 60
 cgaccgccac agttcaaagg acctgcacca ccaacttcga gaagatctcc acctccactg 120
 gtgaagcccc cgccaccacc gccacttgta agctctccac cactgccacc aatgacctcc 180
 ccacctccac cagccgtccc atcaccacct ccacctgcac catcatcacc tccaccgtcg 240
 gcacctgagg agttcatctt gccaccaatc atgggcgcagc agtatgcgtc gccaccgccg 300
 cctctgttcc aaggatacta agcggtgatc acagcgcgct ctactgacga tgagagtaat 360
 cgcgacgagg gaggccagga gaagcagtga caagtcgatc gcaccatgca atgctctagc 420
 gacctgaatn gaatgctatc ngataagcgc atgtacgtt 459

<210> 40068
 <211> 222
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-C6

<400> 40068

gacgcgcccc ctccccgtcc cgacttcgcc tcatactcgg actcgtcgtc ggagggcgccc 60

ttcagcagca gctcattcga ctagccgcgc acaacgcagt tcttgatcgt atctatctag 120

cagataaaaa gatcatatgt ctcggttctat tctctgggtat actactacta tctgttcgtc 180

gcgctgattg cttttttatac atcgatcgag gatcgactta tc 222

<210> 40069

<211> 332

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-C7

<400> 40069

gtgaaatcaa gtataaaata ccgcacgatc aaccagaat ggaacgagga gctcacccctg 60

tccatcacga acatgatgaa cccggtcaag attggactct tcgaccacga cacgttcacc 120

aaggacgaca gcatgggcaa cgccgagttc tgcatacctca acttcgtgga gatcgcggaag 180

caggacctga gcgacgtccc cgacggcacg gtgataaaga cgatccgccc ggagaagggc 240

agctgcctcg ccaccgagag ccacatcacg tggaaggacg gcaagggtctc ccaggacatg 300

gtgctcaagc tcagggacac cgagaccgga ga 332

<210> 40070

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-C8

<400> 40070

acaacgggga ggtgaccgtg gtgacgctgc tcaactccaa gctctttcac atgaacatgt 60

accggggcaa ggacatgctg atcaaggacg tgaccgtgac ggcgcccggg gacagaccca 120

acacggatgg ctttacttgt gcgactcatt cgggatcacg atcaccaaca ccgtcattgg 180

aagcggcgac gaatgcatct tcacggcccc cgggacctac aaggtgaaca 230

<210> 40071
 <211> 363
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-049-Q1-K1-D1

 <400> 40071

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 tccatgtgca aaaactagcc actacacatc acgcgaggtg gctcccgatt attcgacttg 120
 ctgcacggct ccaattcagt tcataccat acacgcatgc atcgtggcgc acgccactca 180
 cgagcgcggc gcccatgcgc ccacaactta ttacgactcg tcaccaacca accaaaccaa 240
 gccaccacgc aggtccagtc caggcgtgtg tgctgtgtc tcctctaccg gccgcgggcc 300
 acatcacgcc gccgaggcgc ccttggcgtc gccgctgcag tagtcgcgaa cggcctcgag 360
 ctt 363

<210> 40072
 <211> 98
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-049-Q1-K1-D10

 <400> 40072

 cggacgcgtg ggcttgttca tgtatgtcga aggttcatta tcttgttcat gtattaagta 60
 tgttatgaat aactcaatat ttattatttt gttcatgt 98

<210> 40073
 <211> 360
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-049-Q1-K1-D11

 <400> 40073

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 tgtcttttac acacatcggg tgtagtatat tatgccactt aacataaaaa caatgtggcc 120
 aatggatgta acagctccaa actgacttgc ctctctttc aaacgactat catggctatg 180

ag

422

<210> 40078
<211> 399
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-D5

<400> 40078

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gagcatcctc gacatcctgt gtggccagga ggatttcccg ctggatctac gcatgaggat 120
cgcgatcaag accgcggaag cgttgcagta cctgcattcg tcggaaactg gcgtcaccgg 180
acacggcagc gtctcggcgt ccaccatact cctcgacaac aacctcgtac cgaagctcac 240
cgagttctcg aggtcatgta cgctgttcaa gaagagcgag actacttctg ttgttggtgc 300
tggagtgatg atcactggca gccttctaga gaaagctctg aacgacgacc cgtcccgccta 360
cggctcggtg ttgatgaacc tggagagcga cgtgtacag 399

<210> 40079
<211> 369
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-D6

<400> 40079

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gtggtggctg attagggtag gaagggatgt ctgaaagtga cgagcacggc tcgctcctag 120
acaagatcaa cgagaagatc cacgagtaca agcactcatc gtcgtcttcc tcgtcagact 180
cagatgatga caagaagtcc aaaaagtcta agaagaagaa gaagctcttt gggaggaaac 240
atccattgca tcacgttctt ggaggaggca aagccgccga tcttgtgctg tggaggaaca 300
aacaggcatt cgggagcatc ttggcagggg tgactgtgat ctggctgctg tttgagggca 360
tcggtacc 369

<210> 40080
<211> 411

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-049-Q1-K1-D7

 <400> 40080

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 cggctcgcgcg ggtaccggtc gcccgaggtc ctcgagacca ggaaaccgac gcagaaatct 120
 gacgtctaca gcttcggcgt cctcctcctc gaaatgctca caggtaaagc cctctcagg 180
 tcccccgggc gcgacgactc catcgagcac ctcccgaggt gggtagagtc cgtgggtccg 240
 gaggagtggg cgtctgaggt ctccgacgac gacctgctga ggcacccgaa cctcgaagac 300
 gagatgggtc agatgctcca cgtcgcgatg gcatgcgctc cggtcgtccc cgacgagcgg 360
 cctttgatgg aggaggtgt cggcaggatc gaggagatcc ggagcttcta c 411

<210> 40081
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-049-Q1-K1-D8

 <400> 40081

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 ggctgggttc caatgcgcga tattcaattt ggattgattg gaaactcaag ctagtgaggg 120
 atccttatca ggtattacaa agggctcttg gcaggcagag tgtagcttt gcaatttcca 180
 ggcattacag acgcttcgat gttttcgagg aagctgactc cgacaaggca ttgggaactg 240
 tgagaacacc tttcgtaagg gacgtagacg cgacaggtgg tttcatttca tagatcagac 300
 ggaagcagag acaaggcgc taaagctgcg ccagggtccg gggctggcag ttgaagcata 360
 gctaggaaac agctttccct ctcttaattc gttgtgttcg tggtagacata atctgtgtgc 420
 ggaccgaatt tagaataaag tac 443

<210> 40082
 <211> 453
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-049-Q1-K1-D9

<400> 40082
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tgtaaagctg agtgatgctt cgaagaagct tgggaagaag tttgcaactg gagcttctgt 120
tgtcaagggc ccgaccgaga aggaacagat tgacgtgcaa ggggacatat catatgatat 180
tgtggagttc attacagata catggcctga tgtacctgag tcggccattt tcttcattga 240
agatggaagg aaggttcctg ccgcttgatg ccactatgag gcgcaggacc aatggattta 300
caattataac acagagataa agcaaaggcg tggctgtcaa ggcattgtagc ggcccatacc 360
agtcgtctct ttgtccgaag tcatggactg gtcttccaag ttttatcagg agtggcgttt 420
tgttaccacc gtcacctgct tcatgtatga gat 453

<210> 40083
<211> 370
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-E1

<400> 40083
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atagccctc catcgactga cccatctctc tagttataat ttttctctcg tccttgcat 120
gcccattaga tgctatccat tggtaacgca caacagtaaa acgacagaca tccgacagct 180
atattatggt cgacggtgta acaccctgaa tttgagggtg taaaatttct tctccaaata 240
ccaaccaaat ttaggggttt aaaaaaata aaaaaaatat ataaaaaaaa tatttttttt 300
tatttaatat aaaattaaat ttaatatatt taatttttaa tttataataa tattttataa 360
aaaaaattat 370

<210> 40084
<211> 397
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-049-Q1-K1-C4

<400> 40084

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catgtcggcc gaggtcggac tgccgcgcgc ggacgcgcgc ggcgcgttcg gagggtagcg 120
ctcgtcggct ggccccccg cctacggcgc tccgtctcct gatgccccag cttatggcgc 180
cagcgtacca gcaccgacct cggagcagag tactgcttcg actgcatgag tgatatcgtg 240
gcggcacaca cgcacatcttg tcaactcctat ccatgggttcg aattaccgac cgaaaagtct 300
ggttcctcgg ccaatttctc gttcccggtc agctagggga agcatttctc ggcccgggat 360
cacattntaa aaatatgaaa gtcaattttt tttgttc 397

<210> 40085

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A9

<400> 40085

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gagggaaagg cttgctcgcc gcgaagacta cggcggccaa gtccgccgag aaggacaagg 120
ggaagaaggc cccaatctca cgctcctccc ggcgcggcct acagttccct gttgggcgta 180
tccaccgtca gctgaagcaa aggactcagg caaatggctg cgttgggtgcc accgcagccc 240
gtactccgc tgccatcctg gagtacttga ctgccgaggt tctggagctg gctgggaatg 300
ctagcaagga tctgaagggt aagcgcatca cccctc 336

<210> 40086

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B11

<400> 40086

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atcgatgcca aagcgtccgg gcctggtggg tccttcgaca tcaccaagtt gggcgccctc 120
ggcaatggca agacagacag cacgaaggct gtgcaggagg catgggcacg ggcgtgcggc 180
ggcactggga agcagacaat cctcatcccc aaggggcgact ttcttgctcg acaactcaac 240

ttcacaggcc cttgcaaggg cgacgtgacc atccagggtg atggcaatct gctggcgacc 300
 acggaccta gccagtacaa ggaccatggt aattggatcg agattctacg cgtggataac 360
 ctggtcatca ccggcaaggg aaaccttgac gggcagggcc cagccgtgtg gagcaagaac 420
 tcctgcacca agaagtacga ct 442

<210> 40087
 <211> 239
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-049-Q1-K1-B12
 <400> 40087

ctaactctaa ccctatctgg gcagaacact atgattaatc agggcctggg tcatggtgcc 60
 gggcgcttaa catcgagtgt gggtagcatg tccagagggg cttccatgca catcgtggac 120
 aaagggtaaa gggctggttc gacttcaagg gcatctatga ccttgaaaag gggagcgcgc 180
 ccaactagct gatactgctg gtccagtcta tctaccgaca ccgagcacct attatgggg 239

<210> 40088
 <211> 438
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-049-Q1-K1-B2
 <400> 40088

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 gatggacttg ttgtttgcac agacagtgcg gtttacgctg aagggtccgc tcgccctact 120
 ggtggtgcgg ctgctattgc aatgctgatt ggaccaaatt ctcctatttg ttttgaaagt 180
 aaatatagag gatctcatat ggcccatgta tacgactttt acaagcccga tcttgcgagt 240
 gaatatccgg tggttgatgg gaagctatca caaacatgct acctcatggc attggactcc 300
 tgctacaatg tattttgcaa aaagtatgaa aaacatgagg ggaagcagtt ttcaatttct 360
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 cgtttgtact acaatgat 438

<210> 40089
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B3

<400> 40089

gtgagagccc cctttacttc gcggagcgcc tgacggagca ctacaagcgc gctgatggcg 60
caggccccgt catctacctc aagagggagg acctcaacca cacgggcgcc cacaagatca 120
acaatgctgt ggcgaggcc ctgctcgcca agcgacttgg gaagcagcgc atcattgccg 180
agacaggggc tggccagcac ggtgtcgcca ccgccaccgt gtgcgcccgt ttggggctgc 240
agtgcacat ctacatgggc gcgcaagaca tggagaggca ggactcaat gttttccgga 300
tgaagcttct tggtgcaaag gtgaaggctg tacattctgg gacagcaacc ctgaaggatg 360
ctact 365

<210> 40090
<211> 365
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B4

<400> 40090

ctgaggctct ggagcttgct gggaacgcag cgagggataa caagaagacc cgcacgtgc 60
cgcgccacat ccagctcgcc gggcgcaacg acgaggagct gaccaagctg cttggtgggtg 120
ccaccatcgc gagcggcggc gttatgcca acatccacca gcacctctc cccaagaagg 180
ctggctcgtc caaggcttcc accgtcgatg acgatgacaa ctgaagctgc cactggaga 240
agaggcattc gctaccgtct tgtttcctag gtttagcacg cagttagtca gcatgtcttt 300
gagagctcga tgtgtttggg aatgacaata gtcctttct tggttcccta agatcgttga 360
ttcag 365

<210> 40091
<211> 439
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B6

<400> 40091

ggctcccaa agatagcata gcagcagcac tcacaatagc aaaaaccacc atccgtcgtc 60
gccaaccgta gcaagaacat caccaccgcc caacggcaag aaagaccccg cctgcaccaa 120
gatgtgcaac caggcgtgcg gctccacgga tcagggcgcc ggtgccgcgc gcgcgcgcgc 180
ggcttgatcg ccagcgcgat tcacgcttc agctcgatat aatcgctgct ccgtcagcaa 240
cccacatatg attcgatcaa ttttcctgct ctaatttctc gaccccgctc aatttttttc 300
ctttctattc ttctactata ctactactat ctgcttgctc cgttgatttc ttctcataca 360
tcgatcgagg atcgactcat cgttttgtaa ttcctgcaat ttgtaagtgt aatgacctat 420
atgacttagt cttcctttt 439

<210> 40092

<211> 355

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B7

<400> 40092

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tcggccacca atccactagc agcttcatgt ttgaggctca ctttgggctg ctcatcttcc 120
tgggctacat ggtgtacgac acgcaggagg tcatttagag ggcgaccac ggcgacatgg 180
actacatcaa gcacgcctc accctcttca ccgacttact ggctgtactt gtccgcattc 240
ttgtcatcat gctcaagaac gcggctgaca agtccgagga caagatgacg aataggatga 300
ggtttgtgaaa atctgtgttc gaacacagca cttcaaggaa aggaaggaaa gcact 355

<210> 40093

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-B8

<400> 40093

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cctcaccaaa cttgtcgact tgtgagtctc ttccgcgcgc gtcgacgaga gctgcgctag 120

gtgatctcgg ctgttctctc gtcccccatg gcgacggcgc tcaaactcgtt cctgaacagc 180
 cccgtcggcc ccaagaccac ccacttctgg ggccctgtcg ccaactgggg ctctgtcatc 240
 gcggggtttgg ttgacatgaa caagcctcct gaaatgatat ctggcaatat gacagcagcc 300
 atgtgtgtgt attctggact ctttatgag 329

<210> 40094

<211> 368

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-049-Q1-K1-B9

<400> 40094

ggcgagcggc agttcctccg ccgcgcggcg tggctggtga tgaggacgga cgggtacttc 60
 gtgccggcgc tgttctgaa cccggcgtag caggacgagc tcgacgggat gttccctcgg 120
 aaggactcgg tgttctacct cctggcgcac tacctgttcc acccgacgaa cgaggtttgg 180
 gggctggtga cgaggttcca caggtcgtac ctgaggggct cggacgaaag gctgggcatc 240
 caggtgaggg tgttcgacgg agacgccccg ttccagcaca tcctggacca gatcctcgcc 300
 tgcacttcgc aggaacacct gctccccgac gtggcggtga cgcaagagcc gtcngcgggc 360
 cgcggcgc 368

<210> 40095

<211> 350

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-049-Q1-K1-C10

<400> 40095

aacacacgga accagaaagc aaacgcaaac aagaagcaaa ccagcaatgg cccgcgcctg 60
 cgtcttctctc gtcgtgctcc tcctagccgc cgtcgccatg gcgcggttcg cgggcgcggc 120
 gcgcacgcac gtcgtcgagg gcaggcccat ggcgtccgag gacgcaccgg aggccgccgn 180
 cgacgtctcc gtcctgctc ctggccccga ctctttctcg acccgctcgc cggcaccctt 240
 cagcagcagc tctttcgact agccgccccg cagagatatc tacggcgctc gatcagtctt 300

tggcgccacc tataacctat cggatcctgc aaagctatat atgattctat

350

<210> 40096

<211> 436

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-049-Q1-K1-C11

<400> 40096

aagccaaaag gattattaca attatgggcc gggccggggg ggttcttcg ggggttcttc 60

tgggccgccc tcgggggggg gccgtttgcg ggggctgcgc gtgtggatgt cgtggagggc 120

aggtacatgg cgtncgccga cgcgcctgag gcggcggctg acgcgcccgc tcccgggtccc 180

gacttcgcct catacccga ctcgtcgtcg gaggcgccct ccagcagcag ctcatcgcac 240

tagccgcgca caacgcagtt cttgtcatga tctatctagc aaataaaaag atcatatgtc 300

tcgtttgatt ctctggaata actaatagta tatatgctgc gcccgatga tatataaata 360

tgtgcatcaa atgcgtgcgg caaacgcatg gaatgtgctt gcctagctag ctaattggtg 420

gttttttttt ctttac 436

<210> 40097

<211> 380

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-C12

<400> 40097

cggtcgcgtg ggatagaata acagcagcac tcacaatagc aaaaaaccac catccggggg 60

cggcaaccgt agcaagaaca tgagcaccgc ccaacggctg gaaagacccc gcctgcacca 120

agatgtgcaa ccaggcgtgc ggctccacgg atcatggcgc cggtgccgcc ggcgccgcgc 180

cggcttgatc gccagagca ttcatcgctt cagctcgata taatcgctgc tccgtcagca 240

accacatat gattcgatca attttctcc tgtaatttct cgaccccgtc gaatatttgt 300

gctttctatt cttgtactat actactacta tctgtctgtc gcgatgattt cttgtgatac 360

atcgatcgag gatcgactta 380

<210> 40098
 <211> 328
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-049-Q1-K1-C2

 <400> 40098

 ggaaggacgg cgtacggcgc tgccaacgct accacaccgg cccggtcgcg cgcccggatg 60
 cgacgcgcgg tcctgtgctg gcgggaccga gatgtgcggt gcatgtgggc gcgtacgtac 120
 gttggtcggt ggtccctccg tccgccctcc ggcttcgtgg ttctgttttag ttaggatgcg 180
 tttggttggc gagccaccgg atgtggagtg gcttcattct agatttgag aatagagctg 240
 ttctgttcta tgttaggtaa gcaggatgga gctgctctat tttttgcttg gttggggagt 300
 gtattataac ggagccattc actttttt 328

<210> 40099
 <211> 310
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-049-Q1-K1-C3

 <400> 40099

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 gtggattcgt taaacacata catgttagaa ctcttagtta agacaagcag aagatctatt 120
 atattctact gcttctagct agaggatgat tgcttcacat gcatatcgtc atgtttaacc 180
 accgtacgta taatttggtt ggagtccatt attctacgct atttgggtat tattattgtt 240
 aattcacatt atagaatcag tcgtgtatgg agattcaaag atatatttat atacttatga 300
 ccttcttact 310

<210> 40100
 <211> 419
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-048-Q1-K1-G11

 <400> 40100

ccaaaccgac gatggcgctcg aataagacgg tcctcatcgt cgcggcgatg cttctcatca 60
cgctcgtgct ggaggccgcc cctccggcga ccgccatgga ctgcaaggcc ggggtgtgacg 120
aggtcacggg ccactccac atgagcatgg aggactgcat gaagaggtgc aaggagatcg 180
ctgctaagca ggggcctagg gacccttaca aggataacaa acttgacatc ccatgaacta 240
attaatgctc ctatatcatc tgcctatcca tgcattgcatt gcattgcgta tgcacactgt 300
gcgtgcctgc ccacaaagt tgcacaacaca ccgatctcga cggatttgta atcgtgtcca 360
ctcgatcgag agatcgatcg atgcttggtta ttatatttgt attccacatt atatataag 419

<210> 40101

<211> 311

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-G12

<400> 40101

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gcaaggaggg gacggacctg gtcgtgtgca aggagtcctg cgcgctctcc cagcagtcca 120
acctggtgct gtacggcagg atccagtgca agggcaagtg caccgagcag aagggcacatca 180
cggcgcgggc catgaaggtc tgccaggagg agtgcgacaa ggcgtacgtg gtgaaggcgg 240
ccgaggtcac caaggcctgc agcgtcacct gcgccaagga gaagaacccg cgcctcagcg 300
agaactgcaa g 311

<210> 40102

<211> 520

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-H10

<400> 40102

gaccacgcg atccactcgt ccgttctcca gcagcctatc gggcggtacc acttcgattt 60
atcaggcacg gcgttcgtcg cgatggccgg gaatggcgag gaggagaagc tgcgcaaggc 120
gggcatcatc gacatgcagt tccgaagggt taagtgaag tacgactcca aggtcacctt 180
ccaccttgaa aaggggtgcg gccccaacta cctggcactg ctgggtcaagt acgtcgacgg 240

cgacggtgac attgtggcag tggacgtcaa ggagaagggc tccgacacgt acgagcctct 300
gaagcactcc tggggcgcca tctggaggaa ggacagcgac aaaccgctta agggacccct 360
caccgtccgc ctactaccg agggaggcac caagtccgtc tacgacgatg tcatccctgc 420
caactggaag gccaacaccg tctacaccgt caaataatta acttttagtgc tgacaatact 480
ttaagccgac ctatgctagc tataactagaa tgggttgat 520

<210> 40103
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-048-Q1-K1-H11

<400> 40103

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agcggggggcc ggcgtggagc tgggctcttc gaagccccag atcgcgacgc aggcggagat 120
ggcggaggcc cgggtgccgc tcgcctaccg cgaccagtgc gcgcacctcc tcatcccgtc 180
caacaagtgc cgcgtcgccg agttctacct cccctggaag tgcgagcccg agcggccacgc 240
ctacgagaag tgccagtacg agctcgatcat ggagcggatg ctccagatgc agaagatccg 300
cgaggcgcan gagaccaagg tcaagggcgg cgctncatt ggcctcatcc cggccaccgn 360
caagctcgcc tgatacgggt cccagcccga tccgcttgat ttaggtctgt ttgttggtta 420
tagcagcgt 429

<210> 40104
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A1

<400> 40104

agatagttta ggtttgataa tggatccaaa atatgttagc ctatgcatct tcgtattact 60
tgtattgcat ggagatacta ctttggcaga aacttgacgg gagtttgcta aatggcatcc 120
attctgcttt agtgcaatgt gcaaggcaaa ttgttttata gaaggaaaaa gctccgatgg 180
ttcctatgca aagggatata gatgtgattc acatggattt cattctatgt gtatttgcct 240

tttgtgaaaa gttagttatc ttaagacaag cggggatata ttctatgttc ata 293

<210> 40105

<211> 365

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A10

<400> 40105

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gccggtctcc tcggcgcccc cgacgagacc cagctccgac gccgagctac tcagcgatcat 120
cgactccgag atcaagtacg ccgaggactg cgatgaccac gacagggttg aggagattcc 180
agaaaatttc cttttcaaaa tcagcgacga gaaggggacg aatgcagtta cccttaaaag 240
aacatatcag ggtgagcaga ttgaggttgt ggttcacatg cccagccttg tcaactggaga 300
tgagcctgat catgaccgtg atggtgagga tgaggacacg gcgggagatg acaatgacga 360
agatg 365

<210> 40106

<211> 389

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A11

<400> 40106

tgaaaattgt tggtgggaag aatctggatc taatagtttt tgatgaaaca aaagatgtac 60
ttcttgagat atatgcacca tgggtgggtc attgtcaatc gctggaacct acttacaaca 120
atctagccaa gcatctacgt agtgttgact cccttggtgt agccaaaatg gatggtacta 180
ccaatgagca tccacgtgca aagtctgacg gatacccgac gattctcttc tatccagctg 240
ggaagaaaag ctttgagcca atcacttttg agggggagcg gacagtggta gatctgtaca 300
agttcatcaa gaaacatgct agcatccctt tcaagttgaa gcgccaggag tcgagaaccg 360
agagcactcg ggcggagggt gtgaagagc 389

<210> 40107

<211> 457

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-049-Q1-K1-A12

 <400> 40107

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 gagggtcagc gtgctcaatg atgctctcaa gtccatgtac aatgctgaaa agatagggaa 120
 acgtcaggtc atgatcaggc cgtcatccaa ggtgatcatc aagttcctga cggtcatgca 180
 gcgccatggc tacattgggtg agttcgagta cgtggatgac cacagagctg ggaagatcgt 240
 ggtggagctg aatggaagac tgaataaatg tgggtgttatt agcccacgtt ttgatgtagg 300
 tgttaaggag atcgagggat ggacggcgag gcttcttcca tctcgccagt ttggctacat 360
 cgtcctaaca acttctgctg gaattatgga ccatgaggag gcccgccgta agaatgttgg 420
 tggcaagggtt ctaggtttct tttattgaaa atgtgtt 457

<210> 40108
 <211> 443
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-049-Q1-K1-A4

 <400> 40108

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 cgctgtcgt cctcctcct cggcgtggcc gccctctcgg cgcgcgccgc ggcgagcag 120
 gtgccgccgg tggggcgagc cgctctgaag ccggactact acagccagtc gtgcccgcg 180
 gcggagcgga tcatcgcgga ggtgatgcag acgaagcaga tggcgaacct gacgacggcc 240
 gcgggcatgc tgcgctctt cttccacgac tgcttcgtca ccgggtgcga cgcgtcgggtg 300
 ctgatcgctt ccaccagtt ccagaagtcg gagcacgacg cggagatcaa cactcgctc 360
 cccggggacg ccttcgacgc cgtgggtgcg gccaaagctgg ccctggagct ggagtgcgcc 420
 cggggtggtg tncctgcgccg aca 443

<210> 40109
 <211> 445
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A5

<400> 40109

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accaaggaac ttggcactgt gatgcgctca ttggggcaga accctactga ggctgagctt 120
caggacatga tcaatgaggt tgatgctgat ggcaatggaa ccatcgactt tcctgagttt 180
ctcaacctga tggcacgcaa gatgaaggac accgactctg aggaggagct caaggaggcc 240
ttccgtgtgt tcgacaagga ccagaatggc ttcattctccg ctgctgagct tcgccatgtc 300
atgaccaacc taggcgagaa gctgacggac gaggaggtgg acgagatgat ccgtgaagcc 360
gacgtggacg gcgatggcca gatcaactac gatgagttcg tgaaggtgat gatggccaag 420
tgagatatgc tcgctatttt taagc 445

<210> 40110

<211> 454

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-049-Q1-K1-A6

<400> 40110

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ccggtggaga agcgcacggc catcacctac atcgacggca acggcgactg gcacagggtc 120
agcaagggcg cccccgagca gatcatcgag ctgtgccgga tgagcaagga tgccgagaag 180
aagatccacg ccctcatcga cggctacgcc gaccgcggcc tccgctccct gggcgtgtcg 240
taccagctgg tccccgagaa gagcaaggag agcgcggcg agccgtggca gttcatcggt 300
ctctccccgc tgttcgaccc gccgcggcac gacagcgcg agaccatccg ncgcgcgctc 360
cacctgggcg tgaacgtgaa gatgatcacc ggcgaccagc tggccatcgg caaggagacg 420
gcgcggcgcc tgggcatggg cagcaacatg tacc 454

<210> 40111

<211> 237

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-049-Q1-K1-A7

<400> 40111

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gatcaactgc actgggccag gcgctgacgt gacaaaccgc gtgccatggt cgtggagggtt 120
ctctcccgac gacgcggcca agtacctcac catcgacttc atcaacggca aagactggct 180
gccggcgtag tactactgat ccgaccaacg actgctggat ccatcaaaca tgcacgc 237

<210> 40112

<211> 124

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H8

<400> 40112

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ggcaaacgtg atgcagtctt gacgcatggt ccattcggac atcatcatgc ttgtcctgct 120
gatt 124

<210> 40113

<211> 218

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H9

<400> 40113

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aggaggctgg tcgacttgct cggccgggcc tccgatgtcg aggacgacct ccggggcaaa 120
aagaagccca acatacacca cctcaagggtt aaggcgtgtc catggacgga cgttcacgcg 180
actatctaaa agcggacgcg acgcgttaac tgacacca 218

<210> 40114

<211> 472

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-A10

<400> 40114

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agagttgaaa agggactata ggttgctaaa ggatgcaaag aatcaaagtg gagcgcatct 120

tgatgagaag acagtgagga ttacggctga cccagcttta tggaaaaata tactgacttc 180

tcatgctaag gctaaaaagt tctgcaacaa gtcttttcct ctatatgagg ccttggggga 240

gctttatgat gggcaaacag ctgaaggagc ctactactac accttcaccc aactttttaga 300

tcttactcaa gtaggaaata gagatgagtt tctcatcata gaacatgaac aagatgaagt 360

ggaagaaacc ttgccgcac atgaagaaga tgatgtccat gttgttgagg caggagatgc 420

aacaggttta aggcattgat cattgccgca gagaacgact actgctacaa ga 472

<210> 40115

<211> 167

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-A9

<400> 40115

actttatacc ctattccttc tacacttcca acttccaatt ctactatact ttcaattacc 60

ttcaatacat cactctcttt actctatata cctacatcaa caatctaatt aactttatta 120

tattcatata tacattcacc ctaccattat actactaact ttaatct 167

<210> 40116

<211> 390

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-048-Q1-K1-B11

<400> 40116

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tcattttcag aaggaanagt caaatgtcat cgatgctaaa gcgtccgttc ctggtacctc 120

cttctacatc accaagttgg tcgcctccgg caatgtcaag acatacagca cgaatgctgt 180

gcatgaggca tgtgcatctg cttgcggctg ctctgggaag catacaatcc tcatacccaa 240

gggcgacttc cttgtcggac aactcaactt cacaggccct tgcaaggtct acgtgaccat 300
ccaagtggat ggcaatctgc tggcgaccac tgacctaata cattacaatg accatggtaa 360
ttggatctag attctactcg tggataacct 390

<210> 40117
<211> 305
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-048-Q1-K1-B12
<400> 40117

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attctgtttc ttgtgcgaag tacaagatcc ttaacaagga accggctagt agatccatct 120
ctcccaatga tgtttttgag ttcaattcaa agtttactga cagaatgaga agaatcaagg 180
ttccactccc tcctgttgat gagaagaaaa aggttggtga agatgttgac aaagacagga 240
gggatgcaat tgatgcatca attgtgcgca ttatgaagag ccgcaaagtt atgggtcatc 300
aacag 305

<210> 40118
<211> 283
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-048-Q1-K1-C9
<400> 40118

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gtttcatgtt gagaaggaan aggcaaattg catcgatgct aaatcttcct gtctgtttgg 120
ttcctttctac atcaccaagt tgttcgccct cggcaatgtc aagacatata actctaatac 180
tgttcatgaa gcatgggtcat ctctgttctg cttcactgtg aatcatacaa tctcataacc 240
caatggcgac ttcttgtcgc gacaactcaa cttcacaagc cct 283

<210> 40119
<211> 363
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D10

<400> 40119

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cttggtgact tcctccgctc cgctcccctc cgctcccgaa cggtcgatct ttgcatggca 120
gcagcagctg gctccaaggg gcggggcgatc gctggaagct tcgtcagccg cgtcctcgcc 180
ggcaaggccg cctcgccgag gagggccgtg cacgcctcgg cgtacgacaa gaacctggag 240
gaacaggtgc gcccgcggtt cgtgccggac gatgtgatcg gcagcgccgg gagccccgac 300
aagtactgga gccccaccc caagaccggc gtgttcggcc ccggcggcgg tggaccccaa 360
gct 363

<210> 40120

<211> 442

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D11

<400> 40120

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tttcgctccc ttttgctcat cgctagtgcc ttgcgggtctt ttacctctg ctctagcatc 120
tgctatccat acttacagtc ttcgtttgat gctggaatcc tgattggcag gttcaatcac 180
atagctcgat cgccatgtct ttcactgtct ctcatgacaa gtgctaagcc tgcgactaga 240
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agtgcacca ctgcaatgac gtcctctcaa tcagcagata ctctctcatg gacggagtcc 360
ttttctttat gactcactct gtacagcttt tcaactatac aggtaccctc tcataaaact 420
tttaacgttg agcatattca aa 442

<210> 40121

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D12

<400> 40121

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catcaagctc tgaagaagat gatgtat ttt catgggttggt tattataatg tatctgccaa 120
catctgatgc tcgccaaagg aaggaaatca cagaggagtt cttcagttac aggagcctgg 180
cgcgaagtct ctgggatgat tattccgctt atgaacactg ggccaagatc gaggttccaa 240
aagacaagga cgaacttgcc gaactccagg cccggctgag gaagcgtttc cctgtcgatg 300
catataacat ggcacgtatg gagctggacc ccaacaaggt gctctcaaac gccaaagtgg 360
agaagatggt ccagtgttgg ag 382

<210> 40122

<211> 455

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-D9

<400> 40122

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ccgggtgcac gagcatcggc tagccatact tactgccttc gtttgaggct ggagtcctga 120
ttggcaggtg caagcacaga gtcgatcgc catgtctttc accggcactc atgacaagtg 180
caaagcctgc tacaagactg tccacatcat ctacctctc accgtctact gcgtctcgta 240
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ttccatggac tgcgtcctgt actgcaagac tcactttgaa cagctcttca aggagacagg 360
gaccttctca aagaactttc aaggtggagc atcttcaaac aagaacgacc tctcaaaggc 420
tccaagcaag ctatcatctg cattctctgg aactc 455

<210> 40123

<211> 407

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-E10

<400> 40123

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gctccgcctt cgcgggcagc tggagtacta cccgtcgtca ccgccgtcac cgccgctggg 180
ccacgccgat gtgtaccatg acgtgatcct cccgccgtcg tcgcaggcac gggttcggctt 240
cgagatcaag gaggtgggca tgaccagccg ctacgcgtcc gctgaggatc tgcaccagat 300
ggacagcgac caggaagagg gtgctgaggg tggcgatgac ggtgacagca gttgcccaca 360
cgccatcgac atgcatgcgg aggagtcac accaagtcta tgagcag 407

<210> 40124

<211> 453

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-E12

<400> 40124

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gtcgcgacgt gctggtttac ctcttcagga tcttgagttt gtacaattcc atcctacagg 120
catttatggg gctggatgcc tgattactga aggttctcgt ggtgaagggtg gtatccttag 180
aaatagtga ggtgaacggt tcatggaacg atatgctcct actgcaaaag atcttgcttc 240
tcgtgatgtt gtttcaagat caatgacaat ggaaattaga gaacgacgtg gtgtagggcc 300
attgaaggat cacatttatt tgcattctgaa ccatctgcct gctgacgttc tcaaagaaaa 360
gctccctgga atttctgaaa ctgctgtaat tttggctagt gttgacgtca ccaaggagcc 420
cattccagtt ttgcctactg tgcactacaa tat 453

<210> 40125

<211> 411

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-048-Q1-K1-F10

<400> 40125

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gcgcgggggtg cggctctccc aaagtccgcc caggcaagaa catcacggcc acctatggca 120
aggactggct ggacgctaaa gcgacatggt atggcaagcc gacagggtgcc ggtcccgacg 180
ataacggtgg cggctgcggg tacaaggacg tgaacaagcc ccccttcaat agcatgggcg 240

catgcggcaa catccccatc ttcaaggatg gtctgggttg ggggtcctgc ttcgagatca 300
 agtgcgataa gcctgtggag tgctccggca agcccggtgt ggtgcacatc acggacatga 360
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<210> 40126
 <211> 325
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-047-Q1-K1-G10
 <400> 40126

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 ggtagccgtt ccaagtgttc aagggtgata agtcgcatgc tcgctgtgct gcgactgggtc 180
 gagtgaactg aacttgtgga tcggtggtgt ataccaaggt gccatcatgt ctaaggtaga 240
 taatttccgc ccgtgggtta cctcatttga gcgcgagcat tgaccacgtt acacaggcag 300
 tctaactttg agctatcatg gtaat 325

<210> 40127
 <211> 249
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-047-Q1-K1-G11
 <400> 40127

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 aattgctctt agtgatggag gaattatcca aaccttcagg caccccaagg ttgtgtttac 120
 cgtgttgac atttccttga ccgggaacgt ggttgcaact ggtagttatg acacaactgt 180
 tatgatctgg catgcatttc gtggaagacc aattgataag aaaatcaggg gtgccaattt 240
 tgaactttc 249

<210> 40128
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-G12

<400> 40128

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gaggccccgac ccctgatacc acgctgaggg cggtggtatt aggagattag cgatggcgag 120
gtggcgggcg gcggcgctgc tggtagtggc tctggcggcg gttctatcgg cggcgtggcg 180
ggcggatgcg ctatccgtta ccgtgaccga caccgagtgc attcacgagt tcgtgcccta 240
tgagggcgac accgtgttcg ggaacttcgt cgtcg 275

<210> 40129

<211> 351

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-G3

<400> 40129

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aaactcgtcg tggctgccca gcagcgcgcg ctgcgccttc ttgagcgagg ggtcgtagta 120
ggagttgaag ctgtcgatgc cgacgacgcc gtgcgcgcgt ttgcggagcg ccagcgagca 180
gtgcgcgccc acgaagcccg cggtgcccgt gacgagcacg gacagccccg cgggcgcccc 240
aggcgccgac cgccgcccgc ggcacgccga cgcccggatc tggcgcttcc agtgcaaccc 300
gtcccaggac gcccggatct gtcgcgcccc gtgctgggtca tgttccactt c 351

<210> 40130

<211> 432

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-G4

<400> 40130

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gatcgagggg gaccgtgatc gggtaaagt tgccgcgaat accttgggga cttgctcctg 120
ggggtaatca tgagcgtgga gccggggatc ccacacaatt tgtcgccgga gttggagcaa 180
actcgcgaca ccggggaaca ccgtgggcag catcgatttt tccacagccg tagacgagca 240

agcaaccgat gaccccgata ctcagcaggt ggataatact gagcaggagc tcgttgaatg 300
agaagaacag gtgattcagg aggaaccaca tggcgaggag tttgatctga tctagggtggc 360
gtgtccccag ttgacttttg cgccaaggac gatccttagt tcgttttata tttatcttta 420
attttggaat aa 432

<210> 40131
<211> 438
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-047-Q1-K1-G5
<400> 40131

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tacaagttcc ctgggtgatga gattccgatc atccgtgggt ctgcgttgtc tgctttgcaa 120
gggaacaacg atgagatagg aaagaatgcc attttgaaac taatggatgc agttgatgag 180
tacattcctg atcctgtaag gcagcttgat aaggctttct tgatgccgat agaagatgtg 240
ttttctatcc agggctcgtg aactgttggt actgggcgtg ttgagcaggg aacaattaaa 300
actggcgaag atgttgagat cttgggtttg acacagagtg gtcccttgaa gactacagtt 360
actgggtgtg agatgttcaa aaagatactg gaccatggag aggctgggtga caacgttggt 420
cttcttcttc gtgggtcta 438

<210> 40132
<211> 235
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-047-Q1-K1-G9
<400> 40132

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caggatgtcg tggcagacat acgtcgatga gcacctgatg tgcgagatcg agggccacca 120
cctgacctcc gctgccatag tgggccacga cggcgccgtt tgggccacga gcaccgcatt 180
cccacagttc aagacagagg agatgaccaa catcatgaag gacttcgacg agccc 235

<210> 40133
 <211> 444
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-047-Q1-K1-H1

<400> 40133

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 gtcgatggcg tcgttctcgg aggtccccc cggaacccg aaagccggcg agaagatctt 120
 taagaccaag tgcgcgcagt gccacacggt cgacaagggc gccggccaca agcaagggtcc 180
 aaacttgaac ggtctttttg ggagacagtc ggggtaccact gcaggctact cctactctgc 240
 gggaaacaaa aacaaggctg tagtctggga agaagacact ttgtatgagt acctgcttaa 300
 cccctaaaag tacattcctg ggaccaagat ggtcttcctt gggctgaaga agccgcanga 360
 gcgtgctgat ctcatcgcgt acctgaaagg agcaactgca tagttcattg acatgccttt 420
 tgccatgaag agaaaaattg tttg 444

<210> 40134
 <211> 283
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H11

<400> 40134

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 accctgagga gttccacatc cgcaccctca cccccgtcct cggcagcgaa cagaaggcca 180
 gggacgcagt gctctaccac tacaagaacg ccgccagcgg cttctccgcg aagctcacc 240
 ccagcaggt caaggatctc aaggagcaac caggtgtttc tca 283

<210> 40135
 <211> 367
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H12

<400> 40135

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tgcagggatg ccatcatagt cgggtcccca tccgtttcct agtcctccgc gtgcacccaa 120

accctcagta gttccacatg cgcacctca cccacgtgct cggtagcgaa cagaatgcc 180

aggacgcatt gctctaccac tacaagaacg ccgccagcgg cttcttcgtg aatctcacc 240

tccagcatgt caaggatctc aaggagcaac cacgtgttct ccatgttggtg ccgagccaga 300

cttaccaact acatggctct gggctctggca ctcaccaggg cacgacacac accttgggcc 360

ttatgtg 367

<210> 40136

<211> 417

<212> DNA

<213> Zea mays

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<400> 40136

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aggattacta gctgtgagca gactgtgata atggctccta gcgctatcgc aagaggagtt 120

gggccaccag gatatacgcc tggagaacac cagggaatg gggctccatg gaatacaagc 180

tatgagcgaa gaccgtttac gactcctgcg actagctcaa gagaagtcgg acctccagga 240

tatgggcctg aagaaaacca aggcagtggc atttcctgta atacaagcag agagcaaata 300

ttgtttatga gccctacaac catctcgaga gaactttgtt caccaggata tttgcccaga 360

gaaaaccagc gcagtgcac ttcatggaat acaagctgcg aatccggact atttatg 417

<210> 40137

<211> 101

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H3

<400> 40137

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tgtagtgggtg gagtaaataa tccctgctgt tcggtgttct t 101

<210> 40138
 <211> 299
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H4

<400> 40138

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 tgacgttgta cacgttcgaa ggtgcggtag acggcaagcg agcgatttga ttctacatga 120
 atgccgagta cgactacctt ttcaaacttt tgctcattgg tgactctggt gttgggaaat 180
 catgcttgct tctcagattc gcagacgatt gttatttgga cagctatatc agcacaattg 240
 gggttgatct cgaaattcgc acagggtggg cctgattcgt agaccatagc acgtccaat 299

<210> 40139
 <211> 423
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H5

<400> 40139

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 agatccagga caaggagggc atcccaccgg accagcagcg tttgatcttc gctggcaagc 180
 agctggagga tggccgcacc cttgcggatt acaacatcca gaaggagagc accctacacc 240
 tgggtgctccg tctcaggggt ggcatgcaca tctttgtgaa gacactcact ggcaagacaa 300
 tcacccttga ggtggagtct tcggatacca ttgacaatgt caaggccaag atccaggaca 360
 aggagggcat tccaccggac cagcagcgcc ttatcttcgc cggcaagcag ctggaagatg 420
 gcc 423

<210> 40140
 <211> 436
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-H6

<400> 40140

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acaagcaagt ttccattcag aaccgagcaa cgcttcaaac cagttcatcc cagaccaatt 120

gatgcaggga cattatgtgc ttggccacaa tttcggggcca ggtagctcac ataaccttca 180

cgacaatctg aaccagttcg atcaggcttc ctccggctcct accttgcaac aacagccgtt 240

taccgggaat ggtcaactga cccagggata tcctgggtgat atgcatgcgt tgcagtttgt 300

ggagccaacc ccccagattg accatcagaa tggcgatgag ggtcagtcgt caataccagt 360

gtgggatttt ctttgagctg cctgcctctg gcactttgcc atccttcctt tcacgcgaga 420

ggccgcgttt caccct 436

<210> 40141

<211> 324

<212> DNA

<213> Zea mays

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<400> 40141

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cggccacgcc accttgagga tcaggaaccg gacacacgca tactacgcct ggcaccgcaa 180

ccaggacggc gccaaagtcg tcgccgacgg cgtctggctc actaacaggt actggatgcc 240

caccgacgac gacatcaact gatgagtgat gatcacatca tgcatatgcc atcgccacca 300

ctcatcaccg gatccgggag ttcg 324

<210> 40142

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E4

<400> 40142

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caacatacac taatgccaaa agaatagtga aattggtgaa tgatgttggt gctgttgtga 120

acaatgatcc cgaagttaac aaatatctga aggttgtctt tatcccaaat tacaatgtat 180
cagtggctga agtgcttatt actggtagcg aattgtcaca gcatattagt actgctggta 240
tggaagcaag tggaacaagc aacatgaaat tctctctgaa tggttgtgtt atcattggca 300
cccttgatgg agctaattgtt gaaataagag aggaggttgg agaagataat ttcttccttt 360
tcggtgccaa aaccgatgaa gttgctgggc tgaagaaaga cagagaaaat ggctgttca 420
aaccagaccc acgtttt 437

<210> 40143
<211> 415
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-047-Q1-K1-E5
<400> 40143

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aggagcttgg gaaggggaagc atagatgatg ggaacttgac tcaagttagt gaccagtcag 240
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agccagagtt ggaggggaaga actgaagacg tgaatgacct tgctcaaaca actgggtatc 360
tgagttcttc tagcccaaaa tagaaccagn tccctaattg ttgccccaca atcac 415

<210> 40144
<211> 416
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-047-Q1-K1-E6
<400> 40144

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ggcgaagctt gagcggttgc acgagcatgc atttgcataa tgatgtggaa gacctaaaga 180
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ggcagtatat cgatgacaca gaagactact tcaacattca acttgacaac cagcgtaatg 300
aactaataca actccagctt aactgacca ttgcatactc tggcatagct gccaacactt 360
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<210> 40145

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E7

<400> 40145

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cccaagtcct ttactgggct cgcgcgccgc cctatgtact tcgttagggt tagtatgttg 180
ttaagtttgt aattctaggg tctggaggga agcatagatc tcaagagggg tgaaatttgg 240
tggtaatctc ctgagaattt caaggagaca agggcgtgga ggttggttct ggagggatct 300
gtgagcaca 309

<210> 40146

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E8

<400> 40146

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ctgctgtggc ggccaagaca cctctaggta tcaaagctaa agaagctatg aataaggag 180
agcttgtttc agatgatttg gttgtgggca ttattgatga agctatgaag aaaccctcat 240
gccagaaagg ttctattctt gatggctttc ctagaactgt gactcaagca cagaagcttg 300
atgagatggt ggcaaagcaa ggtgccaatg ttgacaaagt cctgaacttt gcaattgatg 360
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accactcaaa atttgca 437

<210> 40147
 <211> 407
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E9

<400> 40147

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gcctccagaa cctgctcaag gagcctccaa tcgtggggtc caggtcgatg aggcggccct  180
ctccgctgaa tctggcgatg gtccgcggcg gcagtcgccg atcaaacacc gtcaaaactt  240
tgcaggcccc tggggcgctc acttccggtg ccgagagcag cgccgtggag atgggcaccg  300
agaagtccga agtgtacagc actaacatga cgcatgctat gggagcagcg ttgacatata  360
gacatgaact cgggatgaac tacaatttca tacgcccaga cttgatt                    407

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<210> 40148
 <211> 375
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F1

<400> 40148

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gccccactgc gtgctccagg aagagttgga aacacatgat ggcgtagca aagggaagta  180
taccattggg cttgggcagg aaagtatggc attttgcact gaagttgagg atgttatttc  240
gatgagcttg acagtggatg agtccctcct gaaaaactat aacattgacc catagtgcac  300
tgagcgtttg gaagttggca gtgaaacagt aatagacaag agcaagtcta taaagacatg  360
gctgatgcag atatt                    375

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<210> 40149
 <211> 352
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F10

<400> 40149

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tgctggggcgc tgcctctcgt ttctcttttc aataatcaag atgagccgtg gtggtagtgc 120
cgggtgggtggt caaagttctc tgggttatct ctttgaagc ggtgagcccc ccaaaccatc 180
agtggcacca gctgcaagtg ctccacctgt tgagaaacca tctgctgcaa agactgatgc 240
ggccaagcag gttgctgctg gggttaccag ccaaaccaat tactaccaca gggctgatgg 300
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<210> 40150

<211> 326

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F11

<400> 40150

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ctgcactctt ctcttccact gtcgcagccg ccccttgtag aagcttcgag gctgctgctg 120
ctgcgcccat ggccgcggaa ggcaagacgc cgtccctcgc cgaggagtat tcaattccac 180
cacaggaagt tccagtggaa aaggcagctg aggagaagcc ctctagtggg actgagtctg 240
aagctgctcc ctcaaccaat gatgaaactc ctccatctgt agaagacaag aatggaactt 300
ctgaagtaca agatgctgct gaaaaat 326

<210> 40151

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F12

<400> 40151

gattagttca gtcaaggaga tctcttcctg cagatatgtt gtaacgattc aaagtcccat 60
gctttgcaaa aaccggttat tccaggaaga aaaacgaacc ctctccatcc actgcaatga 120
gttgctgct agagcggaat ccagcgcgga ggatgactcg cttccaaaag aagctcagat 180

ttccatcatc cccgatcagg atgagctaca tgattttccca gcctatgcta cttgatttgc 240
 ctccaataat tatgtttgat gtagaaaaaa acaccatttt ggaggcgcat gggcaactga 300
 gcaacactat gtattaacta tctcgtagat actacagcag aggttccttg taaagcaggt 360
 tgagacgac attctgcagt tcttattata taagatgatt acgaaggtaa catgtttggg 420
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<210> 40152
 <211> 444
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F2

<400> 40152

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 ttactccggt ctgaagttga aagaatttct ggacaacaag atatgcgaca caaatatttg 120
 acgggtctcaa accgtgctaa ccacccaaag aagttcgagg tgctgccagt ttatcagagt 180
 tcttttgctg caggggatga tttttcatcc cttactgatg atagaaagac aagagcattg 240
 gttcatgcta tgggtggagat tcttttttta tgtggaactg ggaaaagagc tgttgtagca 300
 tctgttgac gtgccaatcg tgggaaaatt gatgcagctt tggaagatct ttctgtcgaa 360
 tcagcagtg atctgcagaa agttcttaaa acaagtacat ttacttcaag gaaagatgca 420
 ttcaacaccc ttttggctaa catt 444

<210> 40153
 <211> 323
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F3

<400> 40153

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 atcctectca gtcagcaatt ttggctattg gttctgccga gaagaggggtg atacctggtt 180
 ccgccgatgg cctgtatgag tttgggtcgc tcatgtcagc tacactgagc tgtgaccaca 240

gggttatcga tgggtgcaatc ggtgcggaat ttctgaacgc attcaagggc tacatcgaga 300
tcccgacttc gatgctgctg tga 323

<210> 40154
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F4

<400> 40154

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ggagttcaga tgattgccag ctctcacat gtgggcagga ggaagccatc agacgctggg 120
atgttaaadc tggcaaagt cttcatgttt atgaacatcc tggcattggg ttgagatcat 180
gtgcttggtt tcgagatgga aagcaaata tgtctggtct agctgatcaa accttttgca 240
tttgggattt agatggtaag gaagtagatt gctggaaagg gcagagatcg gcaacaacat 300
ctgattttgc tntagcaaaa gatgggaatc ttataataag cttgagtagg gacaatgcaa 360
ttcttctatt tgatagggag acaaaacatg agagaataat tgaagagggt agtacaatta 420
cttcattttc tcta 434

<210> 40155
<211> 428
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-047-Q1-K1-F6

<400> 40155

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cagcgcagag ccagtagcgg ttgggtgaga agcagagaga gtggatgatg gagcccgcgt 120
tcagcgagta cagcctcttc ccctcagcca aatcccacag cagagtaaca ccgtccttcc 180
cgccggaggc gcacagcgac ccgtcggggc tcacagcgac ggcgttaaca tagccaccgt 240
gcccattccag agtgcagcgc agcttgcaat tggttaagggt ccagaccttg acggtgcggt 300
cccaggatcc ggagacaatg gtgggctgga aggtgtttgg ggagaacctt acgcaggaga 360

cccacccggtt gtggccctcg ccgncgccga ggtcgccgcc gatggtgtac ttgcactcgc 420
cgagagtg 428

<210> 40156
<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-F8

<400> 40156

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gcgcgcgctc cttcccagcc cgcaggtgag ccctgcgagc gcgcgggtcc gcctggccgc 120
ggccgtgccg tcgtcgtcga cgctcgcggc gcgcggcggg gccggggccg gcgcgcgtct 180
ccgcgtgcag tgcgcgatec tgtcgtcgcc cgcgcctgtg gcgcccaccg agtcgaggcc 240
ggcgcgccgg atctcgccgt ccgcgccgga cggcgcgctg cggcccaagc cggcggtgct 300
ggtcgccgag aagctgagcg aggcggggct ggccgtgctg cggcagttcg cggacgtgga 360
gtgcgcctac ggcatgtccc ccgcggagct cctcgccaag gcggcgcagt tcgacgcgct 420
catcgtgcgc agcg 434

<210> 40157
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E3

<400> 40157

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acggagccga gtagtgcggt ggtagccgag cgctccggcc atggcgttct atcggggcct 120
caccgcagtc tcgagactgc gatcacgcat ggcgccaggag gccaccacgc tgggggggtgt 180
gaggtggctg cagatgcaga gcgcgtccga tctcgatctt aagtcccagt tgcaggaatt 240
gattccggaa caacaggatc gcttaaagaa gctcaagtca gagcatggaa agaccagct 300
tggaacata actgtggata tggtccttgg tggaatgaga gggatgactg gaatgctttg 360
ggaaacattc ctacttgatc 380

<210> 40158
 <211> 404
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D1

<400> 40158

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 caagtgcacc gagcagaagg gcatcacggc gccggccatg aaggtctgcc aggaggagtg 180
 cgacaaggcg tacgtggtga aggcggccga ggtcaccaag gcctgcagcg tcacctgcgc 240
 caaggagaag aacccgcgcc tcagcgagaa ctgcaagagg tcttgcaccc cttctccttc 300
 ttgaagcgaa gcccttgaa atgaatgaac catgcatgca tgcatttatg catgcgccgg 360
 ggtgacgtgg ccgtcagctc atgcgctgaa cgagtctata cgta 404

<210> 40159
 <211> 277
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D10

<400> 40159

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 tcgtgcatgg tgagaaggaa gagtcaaagg gcatcgatgc gaaagcggtcc gggcctgggtg 120
 ggtccttcga catcaccaag ttggggcgct ccggcaatgg caagacagac agcacgaagg 180
 ctgtgcatga ggcattgggca tcggcggtgcg gcggcactgg gaagcagaca atcctcatac 240
 ccaagggcga cttccttggtc ggacaactca acttcac 277

<210> 40160
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D11

<400> 40160

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 gatgttggtg ctgggttggc tttaatccat accgacttct accgctttta cagtgttttc 180
 aaacattcag ctttaatccg aagcgaacaa ctcatctgat accacgtcgc tggcgaccct 240
 cacgacggat gcgcctagcc gcgatgactt gatggcgagc aggcctgggc taccctcgcc 300
 cccgactcat ccgtcgtatc attagcgcca ggcaggaagc acaagttgaa cgccaccaca 360
 agcacggtga ggattttggc agcctccacc gtcaccgaac tgaagtgatg ttttaagaaaa 420
 ttttataact ga 432

<210> 40161
 <211> 450
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-047-Q1-K1-D12

 <400> 40161

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 cgacggcgtg aagtccgtcc ccatccccgg cgccaaggag gccgccagcg gcgccaagat 120
 gttcgacagg gagggcgacg ccggtcacga cccggtcagc ggcttgccgg ccgaccggc 180
 gcccgacgcy cccccctaag gctacgcacc gtcgtcgttg tcgtcaccgc cgtcgccgtc 240
 ccgaccggtt ttcgctgaac accacgcgcc ttgtacgtgt gcttgtgatg ttcggcctct 300
 gcgtgcgttt tgcattgctt gcgtgcgttt tccttcggct gccgtgccga ttggtcgtgg 360
 tggacgcagc gccatggata acgggatcta agtactcacc cgtgcttgct gtacctgtac 420
 ccatttattt tgccattctc tctttttttt 450

<210> 40162
 <211> 228
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-047-Q1-K1-D2

 <400> 40162

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gacgcctagg ttgtcactac agagagtctc ctgctaccaa actctcacac cccataacctg 120
 acttgaccaa cacgcacgcc ctgactgacg cataagctca tgcatacttg atttgattta 180
 aacaccaatt ctgtactttt actgaacatg ctactctttt catcattc 228

<210> 40163
 <211> 376
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D3

<400> 40163

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 gtgtgatcct cgtagtgctc ctgctggccg ccatcgcggt ggcaccgttc gcgggcgccg 120
 cacgcgtgga cgtcgaggag ggtacgtcca tggcatccat cgatgcaccg gaggcgccg 180
 tcgatgctcc cgctactaga cgcgactccg tgtcatcccc agactcatcg tcagaggcgc 240
 cctgcagcag caactgctcc gactagacgc aaaaacctct tcattctgtg gaataactaa 300
 cagtatatac gttgcaccct gatgatatat aaacatgtac gtgcattagc gtatggaatg 360
 cgagtggcaa acacat 376

<210> 40164
 <211> 408
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D4

<400> 40164

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 agatgattac agcgacattt atgtccgac aggaatacag tactaagttc ccaaacttgt 180
 gagcatatgc ggggaagagt tggtcagacc cgcatagttc gttcggagag tttgctagtg 240
 ctgtatcggt ggatggtaga ctagacgaac acctattga ttgtatgaca ggatagtttc 300
 agttgcagcg ctggtcgtgc gtacaatgtt tgatgtactt tatttacggc atcacacaca 360
 gtgaccatcc cttattttgt ccaccgaatg aaatgcccta tgatctcc 408

<210> 40165
 <211> 336
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-047-Q1-K1-D5

 <400> 40165

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 gccatccgag cgaacaagcc aaccgacccc gtccccaagg caatccgccg ccgacgtacc 120
 accaccaccg caggagcgag atggagatga agaggatcct cttcgccgtc ctcgtcgtca 180
 tcgccgcctc ggccaccgca gtgctggcct ccaccgaggc cgccgccgcg ggcgccccaa 240
 ctgcctccga gtcgtccgcc gaggtctccg ctggcgctgg cgctggcgct gccgctggcg 300
 ccgacgactc ggggccctac gncagcagcg gcgcgc 336

<210> 40166
 <211> 440
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-047-Q1-K1-D6

 <400> 40166

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 agattgtgac tacagctatc tcagtggtaa caatctctca ggccccatac ctgacttgag 120
 cagcatgcac gccctgactg cagtgtatgc tcaagcatac ttgattcggt ctgaacaccc 180
 attctgcaat tttactgaac atgctacgct tttcatcatt tgaaaaaagg cgccttgata 240
 gcaatcagtt cagtggaaac atcaacccat taatggaaaa actagccaat ctcaaggagc 300
 tgttagtact cgatatctca tttcataatc tatctcaaac agtgtctgca gacattcttt 360
 acctaatgca tttttctaaa aaatggcaga cacctgaaca acagcaatct caccgggcaaa 420
 ataccagatg gtctgaaaaa 440

<210> 40167
 <211> 417
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-D9

<400> 40167

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ggcaggcggtt cgtggacgag cacctgatgt gcgagatcga gggccaccac ctgcggcg 180
cggccatcgt ttgccacgac ggtgccgact ggtcgcatag cacggcgctt cctcgagttc 240
aagaccgagg acatggccaa catcatgaat gacttcgacg agccagggca ccttgcgccg 300
acaggcctgt tggctgggtc taccaagtac atggtcattc aaggcgagcc tgggtccgctc 360
atccgttgca agaagggatc aggaggcatc accgtgaaga agacagggct ggcactc 417

<210> 40168

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E10

<400> 40168

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gacgaatgca aactcaagtt cctggaactc aaggcgaaga ggagcttccg tttcatcgtg 120
ttcaagatca acgagaacgt gcagcaggtg gtggtggaca ggcttggggg accaggtgaa 180
agctacgatg cgttcagggc ctgctttccc gccaacgagt gccgctacgc ggtgtttgat 240
tttgactttg tcaactgatga gaactgccag aagagcaaga tcttcttcat ctcttggggc 300
ccagatgcat cgaggggtgag aagcaagatg ttgtac 336

<210> 40169

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-E11

<400> 40169

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cctagtcttt ctgactcaaa tgaaacacca aagcagctgc ctatagtcac cagtgcacaaa 120

cgaaccggca acatagctcg ctttatgaac cacagctgct cacctaattgt gttttggcaa 180
ccagttctct atgatcatgg tgatgagga tatccacata ttgcattctt tgcaattaag 240
catattcctc caatgacaga gcttacctat gattatggcc agaaccagcg taatagtatt 300
caaatgggaa cccattctgg ttttcggaag tctaaaagtt gcttatgttg gtccccgaag 360
tgagaggtt cctttggcta aaaaccagcc ctataaagaa tataatggat cataatactc 420
catttcaaa 429

<210> 40170
<211> 392
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-047-Q1-K1-E12
<400> 40170

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cacaccaag gttgcgccc aggccactcc aatctccgtt gaggttgagg ctgatgaaca 180
ggtagctgag aaggtggttg tggaggagcc ggctgcggcg gccgacgttg agcatcagaa 240
ggctaagtag gtgctcgctc cagaggcggc cgtcgccgag cccgaccaca aggaggagga 300
agccgtggag aagaccgtcg tcgaggagga gaagccagcg gcagcagccc atgcagagga 360
aaaggtcgcc accgccgcc agaccacgac ga 392

<210> 40171
<211> 425
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-047-Q1-K1-E2
<400> 40171

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tcgaccacca atctggatca gtggagctca aagctggcta tcttaaccgc gacgcacacc 240
 acctcctgca tcccggccat ccccgcggca ccgccgccga ctcggccgac ctactccctc 300
 tgctgcccgg cgcgcgcgct tcaccgtgac ccgaccatgc ccagcaacat ctcccagacc 360
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 ccccc 425

<210> 40172
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C8

<400> 40172

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 taattgttgc aggccttgat tgtacaacta gctgtctgct tcaggccaat agcgacctta 180
 aacttgtcga cccacctaca gtgtctactg cgactttttt taccggcaat aaccttcctc 240
 tgttatctaa ttggactaac aatatatctt cttctgacta ataaacgtct gatataattac 300
 tctgaatcgt taaacctttt ctttttaaat 330

<210> 40173
 <211> 256
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B12

<400> 40173

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 ggctgcaaaa tctctaccca agggctctcca ttgccttaca ctgcggctta caaatgagta 180
 ctatttcact aactcaaaga ataaagactt tccctacgtg gagaagctgg aagaccccaa 240
 actctatcat tatgcc 256

<210> 40174

<211> 261
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-047-Q1-K1-B2

 <400> 40174

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 aacggtggca atcatctata aaggttccat tattcgctcg cgaaaaaaaa aaaaaaaaca 120
 aaaaaaaaaa aaaaaacaaa aaaaaaata aacaaccaa aaaaaaaaaa gacaaaaaac 180
 gcgcatacac aagaaaaaaaa tatagaacag cgtcaaata taaacaacga gacactatat 240
 ggagcataac attaaaaatt a 261

<210> 40175
 <211> 383
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-047-Q1-K1-B3

 <400> 40175

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 cggcgctgcc acggggaggt tctccaacgg cttgggtccc ggggacctcc tagcttccaa 120
 gctgggcatc aaggagctgc tgccgccgtt catcggcacc gacctgcagc tcgaggacct 180
 gctcacgggc gtggccttcg cctgcggcgg cagtggctac gatccgctca cgtccaagct 240
 cgcggttaact ttacacgtcg tcctccggaa gctagctagc tagctagctg cattaacaca 300
 ctcacgtact cctacgtact gactactgaa gatgttatct gagactgaga acaataaaac 360
 ccgtactact actactacgt acg 383

<210> 40176
 <211> 446
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-047-Q1-K1-B4

 <400> 40176

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 gcgcccgagc aaggaggctg cgtacaagca gctgcggtcg cacatcatca tcatggcctc 180
 ctgcgccgtc gtcattccgcg ccaccctta catcctccat ttcctcgccc gcgacggcga 240
 catccaggaa ctcaagctcg atctgtaggc ccgtccgttg cttccccacc ttcagagggtg 300
 ctacaaaggc aaccgttagt tcgaggccac tgcaaggtag tatggagtta gtggctacag 360
 tgcttgctta agttttcttg gtgttccaag tttagtga aaactgacaa tgggtgtagca 420
 actgggttgt gctgcgacca gtattt 446

<210> 40177
 <211> 423
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-047-Q1-K1-B5
 <400> 40177

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 tgtttctttca ccggcacgca ggacaagtgc gcggagtgcg acaagaccgt ccacttcac 120
 gacctctca cggccgacgg cgtcacctac cataagacat gcttcaagtg cagccactgc 180
 aaagggatcc tctcgatgtg cagctactct tccatggacg gtgtgctgta ctgcaagacc 240
 cacttcgagc agctcttcaa ggagaccggg agcttctcca agaacttcac gccagggtggc 300
 aagtcttcag acaagggtga actgacaagg gccctcagca agctatcatc tgcgttttct 360
 ggtactcatg ataagtgtgc tgcttgccag aaaacagggt acccgctgga gaagttaact 420
 ctg 423

<210> 40178
 <211> 439
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-047-Q1-K1-B6
 <400> 40178

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 gccccgtcgc ctgcgccaac gacggctgcc gcgccaaggt ctccgtccgc tgcgtcaagg 120

accacgacgc cgctgcgtg tacaagctgc tccagtgcga gcagggctgc gacaagcgcc 180
 tgctcaggcg cgacatggac cgccactgcy tcaccgtctg ccccatgagg cccatgaagt 240
 gccccttcgg ctgcgattcc tccttccttg accgtgacct cgagaggcac tgcgccgagt 300
 tccttcagcc gcattctgctc atggtcctta aggccatcca taagaaaggc cggctcggaac 360
 aagacctcaa ggaccttgct caaaagctgg aaaagtttga tggagatggg aaactggcta 420
 aggtcttgga tgcaagacc 439

<210> 40179
 <211> 436
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-047-Q1-K1-B7

<400> 40179
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 ttttcttgga actgaacttc taggattagt atcagaccag tggaaggaga tgggatggca 120
 agggaaagat ccatctacag atttcagggg tgggtggttt atatctttgg agaatttact 180
 gtattttctc aagaaatadc caaaatcctt ccatgagctc ctctgtaagc agaatgggtga 240
 tagagcattg tgggaatacc cctttgctgt agctgggtga aatattacat tcatgctaatt 300
 tcagatgctt gatcttcaag cagctaagcc aacgtcattg gttggagcag ttttctctaaa 360
 tctactctta gaaaatgadc gagcgtttga cattctntac tgcataacct tcaaactgat 420
 ggatcagaaa tggctt 436

<210> 40180
 <211> 438
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B8

<400> 40180
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 ggtttaccac tctagtttct ctgatgatga tgggatcaca aaagcttgca gctgtccttt 180

gcttccactg aaaactcata tcaagggccc ggcaccagcc tctgaccctg ataaagcgga 240
cattgttgat gaagccataa ctttctttcg agccaatgtt ttcttcaaaa atttccatgt 300
gaaaagctca gcagacaagt tattgatcta tctgacgttt tatatcaata ttgccttaaa 360
aagactagac ggttgccgga cactagctgt tgggactaaa gcaatcatta atctgggatt 420
ggagaaagtt cctgtacc 438

<210> 40181
<211> 280
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C10

<400> 40181
ctcgtccctc tccctctcct ctctcctctc cctaccaggt tgcgcgagcc ggcgagccct 60
agcaggcaaa agccatggcg tccatgggtc ttcgtgccgc tgcgcgcgct cgtcttccct 120
ccctccgtcc tcgccgaac ggcagcgggg tgctcaccgg cttgaggatc gggacagggc 180
actacggcgt gcggctcgcg ctttcttcgt ccgcggcagc ttctcccaaa gagttcgagg 240
tcgcttgccct tcctgtcgat gatagcagat tgtgcccggy 280

<210> 40182
<211> 436
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C12

<400> 40182
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agttctgaca ctcaatgttc tactgctggg tgggaacata atcttcttcc aaagcctcag 120
tcttctcgga tactgtctgt tcccgtgga cgtgggggct ctgatttgca tgcttaagga 180
cagtgtcata ctaaagatgg ttgtggtgac ggtaacattg gcatggagct cttgggcagc 240
ataccccctc atgagtgtcg ctgttaacct aaagagaaag gccctggcgc tgtatcccgt 300
gttcctcatg tatactcag ttgcctgtct cataattgct ataaattaaa ggcggcatgg 360
tttctacaga actatcaaaa gaattaccag attttggttt ctaaggggat catcaaaatg 420

catattcctt tttttt

436

<210> 40183
<211> 413
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-047-Q1-K1-C2

<400> 40183

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atggccaaca acaccgggac gttggtgggc ggcattccagg acgtgccggg gagcgagaac 120
gaccttcacc tccaggagct cgcccgttc gccgtcgatg agcacaacaa gaaggccaat 180
gctcttctgg gggtcgagaa gcttgtgaag gccaagacac aagtgggtgc tggcacgatg 240
tactatctca ctattgaagt gaaggatggc gaagtcaaga agctctacga agctaaggtc 300
tgggagaagc catgggagaa cctcaagggg ctgcaggaat tcaagcctgt tgaagagggt 360
gctagcgcct aaggatggct ncttctccat gtgcgagcct gaagctcaaa gca 413

<210> 40184
<211> 187
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C4

<400> 40184

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ggggtgggga tctcgtagtc aaggcttgcg gtgaacgacg agtacaacgc aaaatttcat 120
gaactataac cgcggcacat ctttcogttc attgtgttca cgatcgatga cactgccatg 180
gagaaca 187

<210> 40185
<211> 386
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C5

<400> 40185

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ggggtcggtg ctactagagc ttcacttagg acactaggct ggtgcatctc atgacctcca 120
acatggtggc cggcctgcag ggcgacgtcc cagcgatgca cctgaagggc gtacccttcg 180
tcggcggtggc caagaagggtg gcctgttgcg ccaagcactt tgtcggcgtc tgctgtacca 240
ccatgggcat caacgagagc tacacggtgc tgagcttgca cgacctcatg cagattcaca 300
tgctgcccta cgacaactcc gtcattaacg gtttatcctc cgggatgac tactacttca 360
gcttgaacgg ggttaagatg cacgag 386

<210> 40186

<211> 437

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-C6

<400> 40186

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ggtttccggtt ttgatggtgt gacctccatg atgtacactc accacggatt acaagttaca 120
tttacgggga acttcaatga gtattttgcc tttgccaccg atgtagatgc agtgggtttac 180
ttgatgctgg taaatgatct aactcatgga ctttatcctg aggctgtaac cattgggtgaa 240
catgttcgtg gaatgcctac atttgccctt cctgttcacg atgggtcaagc aggttatgac 300
tatcgggatgc atatggctgt ggctgacata tggatcgacc ttatcaagca cagtgatgaa 360
acttggaaga tgggtgatat tgtgcacaca ctgacaaata ggacgtgctt agagacgtgt 420
gtaacttatg ctgaaag 437

<210> 40187

<211> 451

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B11

<400> 40187

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ctcttctgca ccgatgcatgg tgagaaggca aagtcaaagg acaacgattc aaaagcgtcc 120
 gggcccggtg ggtccttcga catcaccaag ttggggcgct ctggcaatgg caagacggat 180
 agcacgaagg ctgtgcagga ggcgtgggca tcggcggtgcg gcggcaccgg gaagcagacg 240
 atcctcatcc ccaagggcga cttcctcgtc ggaccactca acttcacagg cccatgcaag 300
 ggcgacgtga ccatccaggt gaatggcaat ctgctggcga ccacggacct aagccagtac 360
 aaggatcatg gtaattggat cgagattcta cgcgtggaca accttgatcat caccggcaag 420
 ggaaagctcg acgggcaggg gccagccgtg t 451

<210> 40188
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-H5

<400> 40188

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 tgggacaaga agcagcagct tcttgccgtc attggagttt acactggggtt tggctcccgt 120
 ctcaagagga acgtcttccg tggctcctgg atgccaagag gtgatgctct gaagaagctt 180
 gaggaaaagg gtgtagctat tcgttttgtt attggtcgga gtgcaaatacg aggtgatagc 240
 ttggaccgta atattgatga tgaaaatcgg cagacaaagg acttcttgat tcttgaaagt 300
 catgaagagg ctgcagaaga attaccgagc aaagcacaca tcttcttcag tgctgcagtt 360
 gaagcctggg atg 373

<210> 40189
 <211> 420
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-046-Q1-K1-H6

<400> 40189

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 gtgctgagta tggaagcggc agttctcgtg attgggctgc taagggtccg atgctcctgg 180

gagttaaagc tgtaattgcc aagagctttg agcgtatcca cagaagcaac ttggtgggga 240
 tgggaatcat tctctgtgc ttcaaagctg gtgaggatgc tgattcgctt ggcctcactg 300
 gacatgagcg gtacagcatc gatctcccta ccaacctcag tgagatccgt cccggccagg 360
 atgtgactgt tactaccgac aatgggaaat ctttcacttg catcgntcgc tttgacactg 420

<210> 40190
 <211> 480
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-046-Q1-K1-H8

<400> 40190

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 ctgagggtcc acttcaagaa cacaaggag acagcctttg cgcttcgcaa gttgtctttg 180
 accaaggcta agcgatacct tgaggatggt attgctcaca agcaggcaat tcccttccgg 240
 agatactgtg ggggcgttgg tcgcaccgcg caagctaagt cgcgccactc caatgggcag 300
 ggccgctggc ccgttaaata agccagggtc atcctggatt tgctgaagaa tgctgagagt 360
 aacgctgatg tgaaaggctn ggatgtggac aacctctatg tttcacacat ccagggtgaat 420
 caagcccaga agcagatgcg ccgtacctac cgtgctcacg ggcgcacaa tccctacatg 480

<210> 40191
 <211> 226
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A10

<400> 40191

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 cgtcgcggtc ctggccgcbc ggccggcgtc tgcacgcggg ggagccgcgg cggtggcgga 120
 gatctgcatg aaagactccg tccccgacct gtgcaccagg acggcgggga agcaccctaa 180
 caaagtacaa ggtggtggac gcggtgacgg tgctagagat gcaggt 226

<210> 40192
 <211> 443
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A11

<400> 40192

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 cgctcggctc cgctcctctc acccacggtt tctggaggac aattctttgc tatctagcct 120
 tcctcaaaag taaaaagggg aaatgggatc agaaggacct tcagttgtca ctgtccatgt 180
 tactggatth aagaagttcc atgggggtgc tgagaaccca actgagaaaa ttgtgaccaa 240
 tcttaaatct ttcttggaag agcgagggtt gccaaaaaat cttgtcctcg gaagctgcac 300
 agttctcgaa acagcagggg aaggggcact tgccacatta tataaggtht tagagtctgc 360
 tgttgcagac agaggaactg ggtcctcggc acagggacaa gtaacttga tccactttgg 420
 ggtcaacagt ggcgcaataa ggt 443

<210> 40193
 <211> 301
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A12

<400> 40193

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 cagatatttt aagaatcttg tttctcttga agtctgtggt gggttcgtta ctgatgctgg 180
 agtgaagaac atcaaggatc tgaaggccct gacgttgctg aatctttctc aaaatgctaa 240
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 g 301

<210> 40194
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A2

<400> 40194

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atgatacaga cagaaaatgt tgttaacgaa aactatgaaa gtagttcgtc aggcgtgtat 120
gtcaaaagca gggtacgata aggcgatgga tgtgttggat gagctcgatg tcgttctaag 180
ccgattggag ccagatattg gatgtaatga gtcaacagat gttagtata atgaggaaga 240
caaggaagaa gagttgaata aaattaatgc tagcgatggg atggaagatg acaatacaat 300
tacatgtcat aataaggatt cgcataacac caggactgga tgtgaacatg cattaacaat 360
aataacaact ggtaaccaag aagacaacat gggattttca ca 402

<210> 40195

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A3

<400> 40195

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gggtgtccacc ttgagatgac cggtcagaac gtgaccgaat gcacgggcgg gtcaagcaac 120
gtcaccttcg acaacctgag agaccgctac cacacgcatg gcgaccccag gctgaacgcg 180
tccaagtccc tgaagctcgc cttcatcctc gccgagaagc tgaggaaccg aaggatccgc 240
cggtcgtcgt t 251

<210> 40196

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A4

<400> 40196

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cgctcctcgc ccgtggccgc gtccgccaca gtgccggcgc acggccgcga taccgccgact 120
gagatcaagc tcatcaaagg cacggacgcc ttccggcgtgg gcgacgacag catggagtgc 180

gtgtacacgg tgttcatccg gacggggtcg atcttgaagg ccgggacgga cgcgaaacgtc 240
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ggcgggctca tggggcaagg ctactcctac ttcgagcgca gcaacctgga catcttcagc 360
ggccgcgggc cctgcatgga gaaggcgcca tgctggatgc ggctggccac cgacggcacc 420
ggcgaccacc acgggtggta c 441

<210> 40197
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A5

<400> 40197

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ccggcggggtc aagcaacgtc accttcgaca acctgagaga ccgctaccac acgcattgcy 180
accccagget gaacacgtac cactccctgg agctctcctt gatcctctcc tagaagctga 240
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aatttact 428

<210> 40198
<211> 138
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A6

<400> 40198

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gagtacgggtg tcacagtcac tccgtgtagg cagtgccatt tcgaagacaa tattgcaaaa 120
tttaactaac ttggtttt 138

<210> 40199

<211> 442
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A7

<400> 40199

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gaagaagtgt ttgtgaagga tattgactgg cttcctggat ctctgagcc tataagcgg 180
tcctatgttt tcgtttgctc ccatcaaaga agggatataa ggtgtggtat tcgtggacct 240
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gtcagtgcac gtcacacgt gggagggtcat aagtatgcag gaaatgtcat ctttttcagt 360
tctgatgcc aaggagaagt gatgggtcat tggatgggt atgttgtccc cgacgatgtg 420
cctgttttgc tgcataaaca ta 442

<210> 40200
<211> 437
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A8

<400> 40200

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gagctgaagt cgcggcggag cttccgggttc atcgtgttca ggatcgacga cacggacatg 180
gagatcaagg tggaccgcct cggcggaccg aaccagggt acggcgactt caccgacagc 240
ctccccgcca acgagtgccg ctacgcgacg tacgacctcg acttcaccac catcgagaac 300
tgccagaaga gcaagatctt cttcttctcc tgggtcccctg aactgcacg caccaggagc 360
aagatgctgt acgccagctc caaggacagg ttcaggaggg agctggacgg catccagtgc 420
gagatccagg ccaccga 437

<210> 40201
<211> 449
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-A9

<400> 40201

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gactgctcca ttcttgagac ttcaggacat gcaattacgg gggacctgaa cctgttgagc 180
aaattaaatt tgtcttcggg ctctcggtac atcattgtgg tggagaagga tgccgtattt 240
cagaggctgg ctgaagaccg cctgtataat cagctccctt gtattctgat cactgcaaaa 300
ggatatactg atattgccac aagggttcac ttgcatcgac tgagccagac atttccgaat 360
atgccgattt tcgcattagt ggattggaac ccagcagggc ttgctatact gtgcacttac 420
aaatacggaa gcataatcaat gggcctaga 449

<210> 40202

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B1

<400> 40202

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atatgggttg tgggaagtga aagtcactac acagtccttt tttgccttga accccaacgt 180
tcaagaggag aatgagctgg aagagcgcga atcaaaaata aggagggtt ttgatgcccc 240
agatcaaagt ggaggtggag gctttatcag cgttgagggc ttccaacaag tcctcaggga 300
tactgacata aattttcctt cggataaact cgaggaccta tgtaatgctg ggattatagt 360
atggagtga tcttggcagg c 381

<210> 40203

<211> 395

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-047-Q1-K1-B10

<400> 40203

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tcaaattctt tggcttcgaa gacggtaatg caggaagatt tgtgtgagac gaggtcgtct 180
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gctgccgagg cagcgccgat gatggaaatg agcgcgggct tggccttgaa cgccgcgctg 360
cggatgacct tgtataggct ccggaagagc ccccg 395

<210> 40204

<211> 418

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-046-Q1-K1-H4

<400> 40204

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aatggacatg atgagattag tatcaaggcc atgggacggg ccataaataa gacagttatg 180
gttgttgaat tgatcaagag aagggttgga ggtcttcac agaactgc tactgaatct 240
gttgatatca cagacacatg ggaacctttg gaagaaggcc ttctcccact agagacaact 300
cgccatgtgt cgatgatcac tgtgacactg tcaaagaacc ctctggatac atcatctnca 360
ggataccagc cacctatccc agctgaagag gtgaaacctg cttttgacta tgatcatg 418

<210> 40205

<211> 297

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F7

<400> 40205

ctcgacgggc aggggccagc cgtgtggagc aagaactcct gcgtcaagaa gtacgactgc 60
gggatccttc ccaactcgct ggtgatggac ttcgtgaaca acggggaggt gtccgggatc 120

acgctgctca actccaagtt cttccacatg aacatgtaca agtgcaagga catgctgac 180
aaggacgtca atgtgacggc gcccggggac agccccaaca cggacggcat ccacatgggc 240
gactcgttcg gcgtcaccat caccaacacc gtcacggcg tcggcgacga ctgcatc 297

<210> 40206
<211> 355
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-046-Q1-K1-F9
<400> 40206

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aaactgctcg caagtccact ggagggaagg ctctaggaa gcaacttgcc accaaggctg 180
ctcgtaagtc tgcaccaca actgggggag taaagaagcc tcacgttac cgccctggaa 240
ctgttgctct tcgtgaaatc cgcaagtatc agaagagcac tgacctgctc ataaggaagc 300
ttccgttcca aaggcttgct agggagattg cccaggattt caagactgat cttcg 355

<210> 40207
<211> 263
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-046-Q1-K1-G1
<400> 40207

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cgctcgtagc ctcgagagg aggattggag aggcaaccaa ccatccacga cgggatcgca 120
ggagctgatg ccccggtcgc ggaaagcaac ggcgacgaga ttctgtgcac gcgagacgcg 180
gcagagaacc gacgaggagg acgcgagccg cgtgacggat gatccgcggg cgccactcgc 240
tctcggggcg ggaaggcatc ggt 263

<210> 40208
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-G10

<400> 40208

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accacatctc tctcacccta acgaaggctc cccgccccac ataccacgct cctctcctac 120
atccttataa gatttaccat caccacgggc caggcaccgg cacatctacc aattgctctc 180
acagctgcta tatcaccgcg cgtggccacc gaatgcgcta tcccttaccg tgaccacac 240
ccagtgcac ctcgagttct taccctatga gagcgacacc ctgttcagga acttctttct 300

<210> 40209

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-G2

<400> 40209

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ggcagcgcct ggcgctctac tcgctggagg cccgccccga gtggatcaaa gaaaggggtga 120
gagacctggt gaaaaaccgc gcgctgctcg tggacgcgct gtccccgctc ggtgacgaca 180
acgtcagggg cgggcagggc gccatctacc tctgggcgaa gctgccggac acctgccccg 240
acgatttcga ggtcgtcagg tggctcgca acaggcacgg cgctgcgcgag atccctggca 300
gcgccagcgg agggccccgg cacattcgcg tctccttcgg agggctcaag gaggaagaca 360
cc 362

<210> 40210

<211> 329

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-G3

<400> 40210

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caaagctttg ctctttattc ccccgaaggc tccacatgat ctctatgaga gttactacaa 120
cagtaacaag tcaaacctca agttgtatgt taggagagtt ttcattctctg acgaatttga 180

tgatcttctt cccaagtacc tgagcttttt gaaggggtatt gttgactcag acacgctgcc 240
cctgaacgtg tcacgagaaa tgcttcaaca acatagcagt ctcaagacca atcaagaaga 300
agctgatccc gaaaaccctt tgacatgat 329

<210> 40211
<211> 451
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-046-Q1-K1-G4
<400> 40211

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gtcggcgacc tgagcctcgc ggagtggacg tcgttccttg agaggttcga gcagctgctg 120
ccggcgggcg tcgaggacaa gaagtgcgct gtgctagggg cgtcgacgtc gtcgtcgttc 180
tgaccgtgct acgtactggt caatcactac cgtcaccatt tgcattgcata catgcgtgag 240
tgcgtgctg cgtggatgca aaataataca cgtgtgcatg gcgctgtgct agggacctac 300
tagctccgtc tggatgcctt ttgtgtgtct actacgtatg gtcgtcgacc ttgtacggtg 360
gcattggcat gcattgctgtt gggatgggat catgggagtt gggagctgct gtggaacacc 420
ctttncaaag aagctgacgt gtgggggcaa t 451

<210> 40212
<211> 336
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-046-Q1-K1-G7
<400> 40212

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cagccgtgtg gagcaagaac tcctgcacca agaagtacga ctgcaagatc cttcccaact 120
cgctggatgat ggacttcgtg aacaacgggg aggcgtccgg ggtaacgctg ctcaactcca 180
agttcttcca catgaacatg taccggtgca aggacatgct gatcaaggac gtgaccgtga 240
cggcgccccg cgacagcccc aacacggatg gcattccat gggcgactca tccgggatca 300

cgatcaccaa caccgtcatt ggcgtcgtg acgact

336

<210> 40213

<211> 451

<212> DNA

<213> Zea mays

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<400> 40213

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cgtgctgatg gaaatccagg acaagttgtc ggctgagtgg aagcccatga agctctcttg 120

gggcgccatc tggaggatgg aactgccaa ggcgtcaag ggcccccttct ccatccgcct 180

caccagcgag tccgtcatga aggtcatcgc caaagacgtc atccccggcga actggagacc 240

cgatgccgtc tacacttcca acgtccaatt ctactagact ttgaattccc ttcgattcat 300

acggcacagc gggctatgga ctttcagcag caagctaatt aagttggcag catgcaccgc 360

taaccttata tactactgag acttccaaat tctagtatat gtaatccttt tgttcggggt 420

catgatcgaa ttccatagag tggaaaacaa g 451

<210> 40214

<211> 233

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-G9

<400> 40214

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agcagaaatt aactaaagac acatgcatag ctacatgcc aacaggaatt catgtatcat 120

tgtacatggt gcctgagtat atcaccatgc taattgtaga agccattaca catcttttct 180

aatcaataat gcatcttcta aaaccaactt ctataactac attgcaggat cct 233

<210> 40215

<211> 362

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-046-Q1-K1-H1

<400> 40215

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agaagatggt acttatgcac ctaaggagaa aaggaagaag caagaggaga aagctgctga 120

gaaaaaacga cgaacagaag aggcacaaca agctggcctc aatgctgctg ctgccccaaag 180

caatggaact ggctatcaag cgtctcgtct gggcaaggcc tcacaggagc cacctgcgcc 240

ttcgaacaac atcctcttca tccagaatct gccagaccag accacgagca tgatgctcca 300

gatcctgttc cagcagtacc ctggctcncg ggaagtacgg atgatcgaag ctttaaccagg 360

ca 362

<210> 40216

<211> 342

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-H12

<400> 40216

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gggcgccgtc ettgcggcgc ttgtcgtcgg cgggtcgtgc gggcccccca aggtgccgcc 120

cgcccccaac atcaccacca actacaacgg caagtggctc accgccaggg ccacctggta 180

cggtcagccc aacggtgccg ggcgtcctga caacggcggg gcgtgcggga tcaagaacgt 240

gaacctgcca ccctdcagcg gcatgacggc gtgcggcaac gtccccatct tcaaagacgg 300

caagggcttg ggctcatgct acgaagtgag atgcaaggaa aa 342

<210> 40217

<211> 447

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-H2

<400> 40217

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tgccaagata aaggtaatgg agtcgtcacg caggttccag ccggccgtca tcctgcttct 120

cctgctcatt gtgtccaccg atatggcaca ggcaaggga tgcgagaagt acagtgagcg 180

atttgttggg gcatgcatga tgcagacaa ctgcgccaat gtgtgccgcg gtgagggctt 240
 cttggccggc aggtgcagca ccttcgccg tcgctgcatc tgcactaggc agtgctaaac 300
 aagatcgctc gatcgctcgc catgcatcga caacctattc ttaataacgt tcattatctc 360
 cgtcttattt atgacgaatg tcatgtatgt tctggtgact gtcatgtata ttctgatgac 420
 tgtcatgtat ctcggtcatg tatgctc 447

<210> 40218
 <211> 285
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-H3

<400> 40218
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 gagcgcaagg tgcagaagag ctactgggag gagcactcca agtgccctcac tgtcgagtcc 120
 atgatgctcg actcccgtgc cgtcgacctc gacaaggaag agcgacccga gatcctgtct 180
 ttgcttcctt cttacaaagg gaaatcagtt ctagaacttg gtgctggaat aggacgcttt 240
 actggagatc tggcaaaaga agctgggcac gttctggctc tagac 285

<210> 40219
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E10

<400> 40219
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 ccgcaactac ctggccctgt tgggtcaagta cgttgatgga gatggtgaca ttgtggcggt 120
 ggacatcaag gagaagggct ctgacacctc cgagcctctg aagcactctt ggggcgccat 180
 ctggaggaag gatagcgaca agccgatcaa gggacccatc accgtccgac tcaccaccga 240
 gggaggcact aagactgtct acgacgacgt catccccgcc gaatggaagc ccaacactgc 300
 ctacaccact tgatagacct tttttatttt tttattcaat aaaaggatat aaggtgtgtg 360
 acaacaacac aaatattgga ttatctatgg atctcctatg ccatcccaat tttatcatgg 420

acacattttt

429

<210> 40220

<211> 381

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E11

<400> 40220

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tgtttgttga ggggtactcgc ttactccag caaagcttct cgcagctcag gagtatgcgg 120

cttcccaggg cttaccagct cctagaaatg tacttattcc acgtaccaag ggatttgtat 180

ctgccgtaag tattatgcga gattttgttc cagccattta cgatacaact gtaatagttc 240

ctaaagattc cctcaacca acaatgctgc ggattttgaa agggcaatca tcagtgatac 300

atgtccgcat gaaacgtcat gcaatgagtg agatgccaaa atcagatgat ggacgttcaa 360

aatggggtaa agaccttttt g 381

<210> 40221

<211> 303

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E12

<400> 40221

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cgggggagcg cccccactc ctcttcgctg ccaagaaacc accattccta acggatttct 120

accagtcctt ctttaggatt tccgattcgg ttctccggtg agagggtggg aattttattt 180

tcctccgctg caaccggtgc aaacatttcg aattccttca ttccattcct tttcgtgcaa 240

tcgaacattc atatgtttct tggctggatt gaggcacccg taccgaatt ttgatgtgag 300

ctg 303

<210> 40222

<211> 309

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E2

<400> 40222

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ctcttctgca tcgtgcatgg tgagaaggaa gagtcaaagg gcatcgatgc gaaagcgctc 120
ggctctgggtg ggttcttcga catcaccaag ttgggcgcct tcggcaatgg caagacagac 180
agcacgaagg ctgtgcagga ggcattgggca tcggcggtgcg gcggcactgg gaagcagaca 240
atcctcatat ccaagggcga cttccttggtc ggacaactca aacttacagg ccctttgaag 300
ggcgacgtg 309

<210> 40223

<211> 182

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E3

<400> 40223

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agccgatggc cgatgttcat gttcgtataa agtgaacgaa acactaccgg tgtcacggga 120
cctgctgatg aacaagaagg ttacgctggt cacacactgg tcagtctatg aggctacctt 180
gt 182

<210> 40224

<211> 375

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E4

<400> 40224

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ggaggacgag gattccctct gtagcactgc actgcactgc actgcaagtt gttgtacaca 120
agtgcattgt tatgttagt agtccggcct ccgggcggga ggcgccgacc ccattccgatg 180
gcgacgggtg cgtccttttc ggatgctgag ctgcgccgac ctgagcctga gcgtctacgc 240
cttcatgtga atgaaggaga gctgtggcca acgattagcc caccacacaa tggagaccgg 300

agaggtgacc aaccgtgtcc aatccgtgaa cggccggcac gggattgaag tgaacgggcg 360
ggcgggcgaa aaagc 375

<210> 40225
<211> 325
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E5

<400> 40225

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ccgtctcgcc gcggcggaga agactttccg cggaggtgga ggcggaggct acggcggggt 120
ggagggccgtt ggcggaggcg gcggcggcta ttccaccccg agcgaggcgg cgccatccac 180
gcctgccgct ggggagacga ctaccccttc gtcaggcggc ggttactcca ctccctagcgt 240
ggcggcgcca tccacgcctg ccgctgagga gacgacgacg actccttcgt caggcggcgg 300
gggttacggc ggtgcaaccg gcaag 325

<210> 40226
<211> 320
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-E9

<400> 40226

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gagctgtaca ttcccaattt acgtgactac gtgaagaggt attacccatt gggctctgtg 120
tggcaaccgc caggaagcgc agccaacaag gcacctcag ctccgtctgt tcctcctcca 180
tgtctttcca tctcttcagc ctctctgtcc caaccaaatt ctggaatgtc agctgtcttt 240
gctgaaatca gctctgggaa accagtgaca caaggcctca agaaggtaac tgatgacatg 300
aagagcaaaa atagaacaga 320

<210> 40227
<211> 446
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-046-Q1-K1-F1

<400> 40227

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acgcgtggac gtcgtggagg gtaggtccat ggcacccgcc gatgcaccgg aggcggcggc 180
cgatgctccc gtcctagcc ccgactccgc ctcatcccca gactcatcgt cagaggcgcc 240
cttcagcagc agtcctccg actagacgca aaaacctctt cattctctgg aataactaac 300
agtatatacg ttgcaccctg atgatataga aacatgtacg tgcacagtg tatggaatgc 360
gagtggcaaa cacatggaat gtgcttgccct aantattgtt aaattcttaa ttaatatatg 420
tctttttcgg tggtttttaa ttttcc 446

<210> 40228
<211> 179
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F10

<400> 40228

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gccccggtct ccacgcctcc acaaccatcc ttccgatcc cgaccagctt tgaatatacct 120
atggcggacg gccgttggtg caccttcgtg gatacccttt tccaaaatac cccccccc 179

<210> 40229
<211> 293
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F11

<400> 40229

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ccctcggatt gctctaaca cagcggaata tttggcatat gaatgtggga agcatgtact 180

cgttatcttg acagatatga gctcttatgc agatgcactt cgtgagggtt ctgcagcccg 240
agaagaagcg ccatgtacgc gtggctatcc tggatatatg tatactgatt tgg 293

<210> 40230
<211> 440
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F12

<400> 40230

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agtagtttgt caaccttggt gcgtgggctt aatagaaagg gtgcatattc cttgtccaag 120
atttcatggt tatctgagct ggttgctgag tgtccatctt ttgaaatcgg tgggatacac 180
caccgctata taggtcgaca aacacaagta ggaattgctt tttctggctc cttgtttcca 240
actaggtcat tattttgcat acttaattat cctttttctg taggtaatgg aagataacca 300
agaaattggc gcatatatgt ttaggaggac agtgcctgct gttcacatgg cacctgaaga 360
tgttcgatgg atggtaggtc aatttgcgca gcatgaatgc attggtcttc ataattatgt 420
taaagccata actgatcaca 440

<210> 40231
<211> 454
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F2

<400> 40231

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gatagctcgc acaataggcg ctgggacaca attcggctctg gtcattattgt ttcctctcat 180
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tactccggtt caggcaaagc ttgctctgga cattgctctg cacctgatgc cctggtacaa 360
gattgtggta ttccagatca acaagacctt actagcttga ctacagattg cctgaaagat 420

gatggagatg tcacacaaaa tctaagcatg aaca

454

<210> 40232

<211> 441

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F3

<400> 40232

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ccagctccac caaactatcc ctctgacta acgttgccat ctccgaggtg tcggtcaagg 180
agaagggcgc cctggactgg tcggatgac tcaaggagtc gccagccaaa accttcaccc 240
tcgatagcaa ggagccgatt aagggcccca tctccgtccg cttcgctgtg aaaggtggtg 300
gctaccgct cgctgatgac gtcacccctg ccgacttcaa gcctggctct gtttaccaga 360
caggcgaaca aatctgagta atggattctg ctgcgtgcag attatattga tctctaaaat 420
aaatgttgac agagactaat t 441

<210> 40233

<211> 413

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-F4

<400> 40233

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caccggttcc ggtagtca ccaccaccac tactaaaatc gcctccacct ccagtatcta 180
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cgccagtga atcaccacct gctgcaccac cagtaagttc gccgccacca ccagtaccgg 300
tgaggtcacc accaccgtca ccaccatcac cgattagttc accaccgcca tcgatgaaat 360
ctccaccccc accagcacct attagctcgc ctacccacc taccaaattc cct 413

<210> 40234

<211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-046-Q1-K1-E1

 <400> 40234

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 ggcgatgggg tgcgcaacct ccaccgaggc gcgccgcgac atggtgcgga ccggcgccgg 180
 cgcccccccg cgccggagct tctcgctacc ctctgtcgac cgccagcggc tgcggctgaa 240
 gaccgtgtcg atgctcggca acctcggcct cgccggcagc agcgcccgtc actccagctc 300
 gtgcaggcac gcgacgtgt cgggtggagga tttgatgaag agcgacaacg accatgccgc 360
 ggacgcggtg ctctcgggcg acgacgcg 388

<210> 40235
 <211> 388
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-046-Q1-K1-C3

 <400> 40235

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 agaactccat gtcgacgct atcgagaaca tgaacggcaa ggagctcgac ggccgtaaca 180
 tcaccgttaa ccaggcccag tcccgtggcg gtggcggtgg cgccggtggc tacggcgggc 240
 gtcgcgggcg cgccggctat ggtggcgggc gccgtgacgg cggttatggc ggccggtggc 300
 gctacggcgg tcggcgcgag ggtggtggcg gcggctacgg aggcggtggc ggctacggcg 360
 gtcggcgcgga ggggtggtgt ggcggcta 388

<210> 40236
 <211> 348
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-046-Q1-K1-C4

<400> 40236
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 cgtgtgaccg cccgtgccgc cggcgatccc gatccgtcga cccgtcccag ccccgctcgc 120
 agccatgtcg ccgtcggagc cgacgcggga ggagagcgtg tacatggcca agcttgcgga 180
 gcaggcggag cggtagcagg agatggtcga gttcatggag cgcgtcgcgc gctacgccgg 240
 ggggcgccgc ggcggtgagg agctctcggt ggaggagcgc aacctgctgt ccgtcgccta 300
 caagaacgtc atcggcgccc gcaggcctcg tggcgatcat cttctcat 348

<210> 40237
 <211> 321
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C8

<400> 40237
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 ggaacggcac cgagacgtac aaccactggg ccaagaggaa ccggttccag gtcggcgacg 120
 tcctggactt caagtacggc gccaacgact cgggtgctgt ggtggcgcac gacgactaca 180
 agcagtgcag cacggagacg ccgtggggc ggttcaccgg cggcgacacc aagttcgcgc 240
 tggaccgcta cggcctcgtc tacttcgtca gcggcgtcgc atgccactgc gaggcgggac 300
 agcggatgat cgtgcgggtc a 321

<210> 40238
 <211> 373
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C9

<400> 40238
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 cgggatcaag atcgggatca atgggttcgg caggatcgga aggctggtgg ccagggtggc 120
 cctgcagagc gacgacgtct agctcgtcgc cgtgaacgac cccttcatca gcaccgatta 180
 catgacctac atgttcaagt atgacactgt gcacggacag tggaagcacc atgaggtaa 240

ggtgaaggac tccaagaccc ttctctttgg tgagaaggaa gttgctgtgt ttggctgcag 300
gaaccctgaa gagatcccat ggggttcccg tggcgctgaa tatgttggtg agtctactgg 360
tgttttcact gac 373

<210> 40239
<211> 460
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-046-Q1-K1-D1
<400> 40239

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tcataccctt ctcagagttc gcttggtccg gctgatggcc gtgtacgact cttcaaagtc 120
tacacatcta cagaaattcc tgtaacaggg tctcatgatg tgtttagggg gcatacattg 180
gaaagagttt ttgtgaatct gctgctcgaa gtcgcagaag acgaaatata ttttcggaca 240
gtagtcagag atttgaaaac caaaaggcca atgctgcaat tagttcttct tagctcanaa 300
gcatggttat cttctggttg ctgctatgaa aatgatacca atgggttcaca tggaacatca 360
gatctgcagg ctagtggttaa actctngtat tctgattata agaatgcttc agaagcagac 420
ttaaggacag ttgaagagtg ggcatccaaa taccgggctg 460

<210> 40240
<211> 267
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-046-Q1-K1-D11
<400> 40240

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agccgcactg tccgcccctt gggctctaca aagcgggcca gttctgcaac agcaaatgaa 120
aatgacatgc tcagtaatgg ccaagggttt gttagtactg acaaagtaaa tagtcgtgga 180
cattcaatgt gtctgcatac gcccatgttt cccaagatag aaagtggaat ggtggaagta 240
gtagcgcccc ccaaaatagt atcaciaa 267

<210> 40241
<211> 355
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D12

<400> 40241

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ggtgctagcc ctcgcgctag tggcggccac cgccccacag gtagcggagg caaagaagaa 120
gagagcggcg gagagcggcg aggcggcgga ggcaagaag atccaggacg acttctgctc 180
gacgctgtgc gagggcaaga aggggacgga cctggctgtg tgcaaggagt cctgcgcgct 240
ctcccagcag tccaacctgg tgctgtacgg caggatccag tgcaagggca agtgcaccga 300
gcagaatggc atcacggcgc cggccatgaa ggtctgccaa gaggagtgcg acaag 355

<210> 40242
<211> 296
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D2

<400> 40242

gatttcttct attatatgtt tgcggagata ctcccttctg cgctggttct cttcgtcctt 60
cggaagcttc ctcccaagcg ggtatcggcg caataccacc ctattaacta gggagttctt 120
tgtttttatg atgttacatg ctaagaactc cgataagct ggaactgctg aaaacctaca 180
tccggttgta ttgctgtaat attttatgga agcatcccag ggttggaag atgcatcatc 240
accatcatgc tctatgagaa aagagttttg agtggtgcta atgagtttgg gctact 296

<210> 40243
<211> 403
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D3

<400> 40243

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cggcggcggc gagatccggt ctccggtcgc tggcgggtgc cgccgccccg ttgaggcgcc 120

gcattgtcctc ctccgtccac gacgacgct atgagacggc caagtgggag aagatcacct 180
acgccgggat cgtgacctgc accctcctgg cggcgtacaa cctgtccaag ggccaccccc 240
acttcgatga gccgtcggcg taccctatc ttcacatccg caacaaggag ttcccatggg 300
gccctgatgg gctggttgag acgaaggacc accactgagc cctgattagc acacctttca 360
ggagctgtgc acgctaaaag gagtatatgg gtgttcagtg att 403

<210> 40244
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D4

<400> 40244

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acagaggata ggaaagcaag gaagcaactt tattcaaaaa gagctcagca tggaatatgt 120
atatgattac atgtttcacc tcttaactga gtatgccaaag ctcttaaggt tcaagccaag 180
aaaaccacct gaagctattg aggtctgtcc tgaatctctg gcttgccaag ctataggccg 240
cgagaagaag ttcattggagg actccatggt gagatccgcc agcgatgctg ggccatgtga 300
cctggcttct tc 312

<210> 40245
<211> 389
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D5

<400> 40245

cagcactgcg cctgccgcga ctggcccggc gtcgaccccg cccccccac cgccccggct 60
ggcgtgaaga aggccgccag cgtcgtgac gacgctggga aggcctccgg caccgcgcc 120
tccactcccg cgcagggcgg cgctgctgag tgagattcgc gccgcccacc gcgtggtgtt 180
ctgttccttg aggatcggaa cccgccgtgt cgaacgaacg tgtggtcatc catcgttgcc 240
ccgtttgagc atatcaatcc ccgttgggtc gtgtttttcg ggtctgagt gatttttggc 300
ttttgatcaa aaaaaaaca aaagaccacc aaattaccct taatatcaaa ctttcaacaa 360

catttttcaaa caaaaaaaaaa agggcggcc

389

<210> 40246

<211> 362

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D6

<400> 40246

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gagatgcaca gtgctgatag acaatgcctt gactcagctg atgttcctgc ttcaactcag 120
cctctgtcag tttcacctgt tttgatgagt gatgagcagc atgtcgatga cgccattct 180
gctgtcaagg ccattgagca cctgggcaat aatctggcta acataaagca gaaatccctg 240
catatggatg tcctcatgtt agaggacgcc aaagttgctt ccatggctgc agtccttggc 300
atgagggaaa atctgtcgac gctggatcaa aatcttttga tatttacttg gagctctggc 360
tg 362

<210> 40247

<211> 348

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D7

<400> 40247

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ccgccatggc gctctctgtg gagaagacct cgtctggacg ggagtacaag gtcaaggatc 120
tctcgcaggc ggacttcggt cgcctcgaga ttgagctggc cgaggtcgaa atgcccggcc 180
tcatggcgtg ccgcgccgag ttcggcccgt ccaagccctt cgccggcgct aggatctcgg 240
ggctctttca catgaccatc cagaccgtcg tcctcatcga gaccctcacc gcgctcggcg 300
ccgaggtccg ctggtgctcc tgcaacatct tctccacgca ggaccacg 348

<210> 40248

<211> 336

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D8

<400> 40248

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acacccttcg cacaccaatc attgtattta cacagacagg ctccatggct gtcctcctga 120
gccactatcg tccctcgtct acactatttg catttacaaa cgaggaacga gtgaagcaac 180
tgctagcact ctaccagggc gtcatcccta ttcacatgca gttctctgac gacgcagaag 240
aaactttctc cagagcaatt agcagcttgc tgaaagcaca atatgtgaag aagggagact 300
acgtcactct tgttcagagc ggagtgactt caatct 336

<210> 40249

<211> 430

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-D9

<400> 40249

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ctcaagccga gaagagtgcc tggccggggag agcgtacgat aatagatccg catgcatatt 120
cttgtttggc ggagacggga gacatggagc ggatcttcta gcggttctac accaactgcg 180
aacgtaagat ctcgtgctc ggagctgaca gaagcgctac tgactctggg gtccacctct 240
gacgacgaag tgcagcgc atggtgctaa atcgacaccg accgagactg ctgcatctac 300
ttgaacgagt tcatgacctt ctgcaacgcc aacctgac tcatgaaaga cgacgcacag 360
gtcttctgat ccattacatc ttcgtccata cgattgaata gatgatgaac ctgcttatat 420
acacacacac 430

<210> 40250

<211> 382

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A9

<400> 40250

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ggacagaata attaacatca tggggcaagc ctcacggctc gtctctctcg ccgtcttggc 120
 gctgctgtcc ggcggcctcc tgccgcacgc gctgggtaag gcctggcgtg gcaggcgaca 180
 cggaggcgcc ttcaacctgt aggtccacga catctgcttt cgcacgatgc cccctttgat 240
 aggctcgctg acgaccggcc gtataacgag ctacctcgta ttctgatcac tgcataacga 300
 tctctgata ttggcacacg gttcatcttg catcgactga tcttcacatt tccgaatatg 360
 ccgatttttc cattagtgga tt 382

<210> 40251

<211> 273

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B1

<400> 40251

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 caagagcgcg gccgatgatg ccatgctgcg gcggaggcga agaagatcca ggacgacttc 120
 tgctcgacgc tgtgcgaggg caagaagggg acggacctgg tcgtgtgcaa ggagtctgctg 180
 gcgctctccc agcagtccaa cctggtgctg tacggcagga tccagtgcaa gggcaagtgc 240
 accgagcaga agggcatcac ggcgccggcc atg 273

<210> 40252

<211> 396

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B10

<400> 40252

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 cagaggcaaa gaagaagaga gtcgccgccg ccgccgccga ggagaagaag gtgcaagaca 180
 acttctgctc gacgctgtgc gaaggcagga aggggatgga cctggtggtg tgcaaggagt 240
 cctgcgacct ctcacagcgc tccaacctgg tgctgtacgg gcggatccag tgcaagggca 300
 agtgcaccga gcaaaaaggc atcaccgcgc cccaaatgaa agggtgccaa aaggcgtgctg 360

acaaggacta cacgggcaaa gcgggtgagg tgacca

396

<210> 40253

<211> 426

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B11

<400> 40253

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tcaacgtata ggagttctta gtgctggtga tacaataagc aaacatccag cctttgatac 180
aaactacaaa attttgtggg ccaatcatgg agatgcaata agcattcagt actctggaac 240
tcctgctctg aagggagatt ttgttcggta cggaagcga actactcagg gaattctaaa 300
cgatttgagg aatgcacttg ctagatacta cttgaataac ttcgttgatg ggactaagca 360
ggatgccatg gatcttcttc aaggacataa catgacatct gttagtcgag acatggcagt 420
gccaaag 426

<210> 40254

<211> 443

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B12

<400> 40254

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ctcgtcgtgc tcctcctggc cgccatcgcg gtggcaccgt tcgcggtcgc cgcacgcgtg 120
gacgtcgtgg agggtaggtc catggcatcc gccgatgcac cggaggcggc ggccgatgct 180
cccgtccta gccccgactc cgctcattc ccagactcat cgtcagaggc gcccttcagc 240
agcagcttct tcgactagac gcaaaaacct cttcattctc tgggaataact aacagtatat 300
acgttgacc ctgatgatat ataaacatgt acgtgcatca atgtatggaa tgcgagtggc 360
aaacacatgg aatgtgcttg cccaaatatt gcgtatttct ttatttatta tatgtctctc 420
tcgcgggggt tttatttttc tta 443

<210> 40255
 <211> 469
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-046-Q1-K1-B2

 <400> 40255

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 aatggcagtt tttaattgaa ctataaattt catgagttca ctgttgagtc ttcattccagg 180
 acctcagtgg gcagcagcgc agcagaggtg gaggtccatc gggagaatgt ggagacagcg 240
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 cgcatgacat cggaacacta ccctgccgtc tagacaggat caagatcagc agtgggctta 360
 tcatcgactc gatcgagttc tcgtacgctg gccctgacag ccagtaccgt accgcatgcc 420
 ccttgngtgg tcatgganga gacatcagct ctgtgagtgt gatgaacat 469

<210> 40256
 <211> 372
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-046-Q1-K1-B3

 <400> 40256

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 gccgcggagg agcagcactc ggcgctcatc ctgctgccgt tccacaagca ccggtcgggtg 180
 gacggagggc tggaggtgtt ccacccggag atccaggcac tgaaccagag catccagcgc 240
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 gggtgccgcg tggcggcgct attcttcggc gggcgcgacg accgcgaggt ggcagcgcgtg 360
 gcgatccgta tg 372

<210> 40257

<211> 313
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-046-Q1-K1-B5

 <400> 40257

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 ggcgcatcat atgatcccat gctacgatcg cggctaata caaccacgac aacttctgct 120
 cgacactgct ctagttcaag atcgggacg tgccgggtcca gagccaggag tcctgcgacc 180
 tatgcctgga ggacaacctg ccgctgatcc gcacgatcca ctgcaagggc cagtgtcct 240
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 acctggtgaa ggc 313

<210> 40258
 <211> 468
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-046-Q1-K1-B6

 <400> 40258

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 aagtctaaaa cagccgatac agtcaagtgt aaagtagttg atggtgggga attgaaatca 120
 cggcgccacc taaatgtccg tggaaagagt gctactttgc catctatcac tgagaaggat 180
 tgggaagaca taaaatttgg tgtcgaaaac ggtgttgatt tctatgcagt ttcctttgtg 240
 aaggatgcca aagttatcca tgaattaaaa gactacctta aaagtgctaa tgccgatata 300
 catgtcattc caaaaattga aagtgcagat tcaataccaa acctgcagtc cattattgct 360
 gcttcagatg gngcaatggt ggcgcggtga gaccttggtg ctgaacttcc gattgaggat 420
 gttcctttgc tacaggcaga gaatgtccaa acatgtcgaa gcatggaa 468

<210> 40259
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-046-Q1-K1-B7

<400> 40259

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gaggtatcag actgctggaa tgctggagac tgttcttcgg gttggcacgc ttggagaaga 180
tgatactggt gaagaatctc ccaaaaacct gaagatacct tctcgcaagc catctattgc 240
atgtgaaaat cgtctttact cccttgaagg caatggtcga atgagggtt tccacataat 300
ggatccaaag ggagtgttg acacacttgt tatttttcat gagaagagga tccttctgaa 360
ttaaccccaa ccttttattc ctttagagtg cccacagtga 400

<210> 40260

<211> 415

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-B8

<400> 40260

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gacgaccttc gccgtcatct tatccgtcct cttctgtgcc gcggtggca ccgtcgtcga 180
caacgacctc cccgactacg tcatccagg ccgctctac tgcgacacct gccgcgccgg 240
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cttcggcacc ggcaagctcg agcgtccat cgacggtgtg accgacgca acggcacgta 360
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<210> 40261

<211> 325

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-C1

<400> 40261

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tgcacgtgc atggtgagaa ggaagagtca aagggcatcg atgcgaaagc gtccgggcct 120

ggtgggttct tcgacatcac caagttgggc gccttcggca atggcaagac agacagcacg 180
aaggctgtgc aggaggcatg ggcatcggcg tgcggcggca ctgggaagca gacaatcctc 240
ataccaagg gcgacttctt tgtcggacaa ctcaacttca caggcccttg caagggcgac 300
gtgaccatcc aagtggatgg caatc 325

<210> 40262
<211> 448
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-046-Q1-K1-C10
<400> 40262

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ttcctcgcca gtttcgcgac gccgctcccc ggcgctgctc cctcgcccc gaccggcgcg 180
cgcgcggtgt ctgccgccgt catcgccacc accaccacct gcgtattcgc cgacgcccc 240
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ccgaaggacc tcagcccga caccgtggcc ttcacatcc ttgggggggg cgccgggacg 360
cgcttttttc cggtaagcg tacaagggcc aagcccgtgg tgcccgtcgg gggatgctac 420
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<210> 40263
<211> 432
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-046-Q1-K1-C11
<400> 40263

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cttgatagct tgcctttttg cgccgctcct cagccatcct ctccatctcg gtgtcacaca 180
ctccgcatac gcacctacga gagtcgagtg acagcgagcg agcgagcgag cgaagccatg 240
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<210> 40266
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H1

<400> 40266

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ccccatcttc aaggacggca agggctgctg ctcacgtac gaggtgagat gcaaggaaaa 180
acctgagtgc tcgggcaatc cagtcacggg gtacatcact gacatgaact acgagcctat 240
cgctccctac cacttcgact tgagcggcaa ggcttcggc tccctggcaa agcccgggct 300
caacgacaag attcgccact gcgcatcat ggacgtcgag ttcagaaggg tgcatgcaa 360
gtaccccgcc gggcagaaga tcgtgttcca catcgagaag ggctgcaacc ccaactacct 420

<210> 40267
<211> 431
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H11

<400> 40267

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gagaagttgc ccagggcaa aaggatgaatc tcctgcgggt gcaactgagc aggaacaag 120
tgacaacaaa gccctggcaa cactgaataa taacaatgtt gctgcaagca atggcgaagc 180
cacaagtga gcaaagaaag gagtgccaaa ggcccggtga cagtatatag acattattgg 240
cagagacaaa gatttcggat tctttgccta tagctagaca agacaccccg ttagaaatat 300
ttcgtaatga taatgattgt catcaagtgt acattcattc ttgcttgaca gtgttagacg 360
tgtaattaat ataagcttgc cgattgtgta acaagtaacc catatggcat cttgtgtgtt 420
acaacttaca c 431

<210> 40268
<211> 342
<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H12

<400> 40268

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ctgggacgac cagaactcgc agatgcagtg ggtgaagccc ctcaaccttg cgcagctcaa  120
ggcagccatg cagaagcggc tcaagtccgt cgtgtcacgc tacgccggca aggtcatcca  180
ctgggacgtg gtgaacgaga acctgcactt caacttcttc gagacgaagc tgggccccat  240
ggcgtccgca cagatctacc agcaggtggg gcagctggac cgcaatgcc a tcctattcat  300
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<210> 40269

<211> 425

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H2

<400> 40269

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gtggagggca ggtccatggc gtccgccgac gcgcctgagg cggcggtga cgcgccgct  180
cccggccccg actccgcctc atccccggac tcgccgtcgg aggcgcctc cagcagcagc  240
tcatccgact agccgcgcac aacgcagttc ttgtcatgat ctatctagca aataaaaaga  300
tcatatgtct cgtttgattc tctggaataa ctaatagtat atatgctgcg ccgggatgat  360
atataaatat gtgcatcaaa tgcgtgcggc aaacgcagtg aatgtgcttg cctagctagc  420
taatt                                              425

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<210> 40270

<211> 339

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H3

<400> 40270

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agagagcggg atcgagaaga aattgaagcc gctaataatt agccatcggtt ctctagagtt 180
cctttcttcg tttgttttgg tgtgtgttcc ttttccccgt tttttttttt gtttttagtgt 240
gagttctctc ttctgtaaata aagatgcagg tttcatggcc attgtgcctg gctctgggtg 300
tgaacctgag aatgagatta catgttttct ttctgattc 339

<210> 40271
<211> 371
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-045-Q1-K1-H4

<400> 40271

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gccatggagc tcttgggctt ccateccctac tccaggccct ccccttcoga ggtgaaggct 180
gcgtatagaa gaatggtgat ggagtcccat cctgatcgtg tcccaacgca tctgaaatcg 240
caggctgagt caaaaattcaa ggagatcgca gaagcatatt cttgttcgaa ggacggaaga 300
agatcagggg gtangatgga agtcatgtat gcgttctggt gttcgactag cacgggagat 360
caaatagacg t 371

<210> 40272
<211> 238
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H8

<400> 40272

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ggactctaaa tagaaagaga ggagggatgc ttacattctc atttgggcta atatcaaggg 120
catggaatca ggcaaaactt cacatattga aagcttcaag gacaaaacga ttgcagatgg 180
ggagtatctt ccatgagctc ctaaagtctg tgcagagcaa gcgtttaga ctggaaca 238

<210> 40273
<211> 429
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-H9

<400> 40273

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gggaagaccg aagaccgagc cgggcggggg ctcgggacgg gaacgggaca ggaccccaaa 120
atcttagatc ctctctgccc gcccgcccgt gcccgtcgac gcgtcgttct tgccggccgc 180
gccccacctc cgtcctctcc tcctgcaggg ggatcggata cgccacaggc tcgcgcatgg 240
tgctgtgggt ctctcggtac ggctccctca tctggaaccc cggttttgac ttcgacgaca 300
aaatcctcgg ctttatcaag ggctacaagc gcacctttaa tctcgcttgc attgaccaca 360
gaggcacacc ggagcattcg gcgaggacct gcacgcttga aaccgacgac gaggccatat 420
gctggggaa 429

<210> 40274
<211> 144
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A1

<400> 40274

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tcaccccaat atctcatggc gtctttctcca acgcacttat cctcgcacca ctatatccag 120
gagcgtcgaa gtgatccacc cgcc 144

<210> 40275
<211> 186
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A10

<400> 40275

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tcgtgcatgg tgagaaggaa gagtcaaagg gcatcgatgc gaaagcgtcc gggcctggtg 120
 ggtccttcga catcaccaag ttgggcgcct ccggcaatgg caagacagac agcacgaagg 180
 ctgtgc 186

<210> 40276
 <211> 448
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-046-Q1-K1-A11
 <400> 40276

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 cctcaccttc caggtcggca agggatccaa gcttgccac ctgatectca cccccaatgt 180
 tgccaccata tccgacgtgg agatcaaaga gcacggtggc gatgacttct cctttacgct 240
 caaggagggc ccgactggca cctggacgct cgacaccaag gccccgctca agtaccctcc 300
 ttgcatccgc tttgctgtca agtcggcgcg ctaccgcac gccgacgacg tcacccctgc 360
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 tgaaaataga ttcaaaagag ctcatcta 448

<210> 40277
 <211> 299
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-046-Q1-K1-A12
 <400> 40277

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 aacgtgcgca acggttttta agcgaagata attgcacgag cataaaactg gggtaataaa 120
 taaatcacgc taccaaagaa gagtgctgat gcttgcaact aagtgtacat gattccataa 180
 tgaacatcat aaacgtagcg atggcccttt ctattgtaat gatctcttaa aatttttagcc 240
 cgacatacga atacctggat ctgttatctg ggctgacagt ttgaccaaa ttgaacgtg 299

<210> 40278
 <211> 124
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-046-Q1-K1-A2

 <400> 40278

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 gcgcgacggc atccttcggc atcactggga caaaatctgg actgtcactc aagattggga 120
 tata 124

<210> 40279
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-046-Q1-K1-A3

 <400> 40279

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 tcgggctcga cgtcaattcc gcgctcgctt ttctccagga aaggctgcag cagtacaaaa 180
 tagtggagat gaagcttcta gcacaacaaa gggatcttca ggcaaagatt cctgatatag 240
 agaagtgctt ggatattgtt acaacattac aagctaaaaa ggatttgggt gaggcactca 300
 tagctgattt cgaattgtcc gaggggatct actcccgctc aaaaattgag gatactgact 360
 cgggtgtgct gtggttgggt gcaaattgtga tgctggagta ctcttgcat gagggcaatg 420
 ccctcttgaa ga 432

<210> 40280
 <211> 368
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-045-Q1-K1-G6

 <400> 40280

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cttgaccttc acgctaacag aattgctcag cttccccgagt cgattgggga tctttccaac 180
ctgatatatc tcgaccttag gggcaatcag cttgcatcat tgccggccag tcttggtagg 240
ctggtgaagc ttgaggagct tgatgtgagt gcaaaccatc ttacctcact ccccgactca 300
ataagaagcc ttacacgcct gaagaacgtg atcggcgaaa caaacgacct tgatgagctg 360
ccatacac 368

<210> 40281
<211> 362
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A5

<400> 40281

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cgctactac gagtggagcc cagccgacct gcccatgctc ggcgtcgctt ccacggcgcc 180
agccaagctc tccctcgccg ccggtgggct ctcgctcccc agctactccg actcttccaa 240
ggtcgcgtac gttcttgaag gcactggcac ctgcggcatc gtcttgccgg aggcgaccaa 300
ggagaaagtg ctggccgtga aagagggcga cgccctcgcg gctccccctt cgcgtgggtca 360
cg 362

<210> 40282
<211> 401
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A6

<400> 40282

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gcgaggggct cgcggggatg gggatctcga gggcccttgt gatggcgatg gcggtggcgc 180
tgctgatcgc cgtcgccggt gcgaccgccg aggagcagga gcccctgctg gcggcgagcg 240
cgggtggcgg cgcggtggag gcggcgctcg gggaggtgga gaccgcggcg ctcatggcgg 300

agctggggca actccgggcg aagatctcgg cgctagagtc agacatagaa gagcgatctc 360
aagaactgaa gaataaggat gatgccatca tgaacctgga g 401

<210> 40283
<211> 248
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-046-Q1-K1-A7

<400> 40283

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ctgctacttg tttgatgggg ccaaaaatct gcatcgatgt ggtatccaca tggccgtgtt 180
tttgaataat aatattgtaa cacgtagcct gcattagcag cgcgtattaa ataaaggaac 240
ttcctgat 248

<210> 40284
<211> 380
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F10

<400> 40284

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cctgattatg tgcttaaaga ggggtgaagga ggcacacttg ttaatattta taatttagaa 180
cagtatatta cttcgggtgtt ggatgctaca gttaagtcag ggataaagcg acaggttgag 240
gcatttagat cagggtttaa tcagggtgtt gacatgtcat ccctgcacat attgtcacct 300
caagaacttg actatcta atgtggccga caagaaattt gggagtcgga aatcctggtg 360
gataacataa aatttgatca 380

<210> 40285
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F11

<400> 40285

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tggcgcacat cgccttcgga ttcacacacc acgccgacgt cgcgcgacgc gccgcatgaa 180
tcgattaatt attatatata tatatgcatg ctatctacta tgatcgatcg cttctcgacc 240
ttcttgcata gatctgcatg catattataa tgtatattat attgatgcca cgccgcatgc 300
aggctcttcc aaggcgtagc tactatatca aattatttta atttccttac atgtatatgt 360
atgtgctgct gttggatacg tacgtatata tatatcgtct 400

<210> 40286

<211> 62

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F12

<400> 40286

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gg 62

<210> 40287

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F3

<400> 40287

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atcaaccttg cctaccgcga cgcaagaggc agcgatccgt atgtcgtcct acgacttggc 120
aagaagaaac ttaagacgag cgtgaagaag agatctgtga accccatctg gcacgaggag 180
ctaactctga ccgtcacaga tcccagccta gctctgaagc tggagggtgtt cgacaaggac 240
acgttcagca gggacgaccc gatggggggac gcggagatcg acgtggcgcc gctgggtggag 300
gcggcgaacg cgagcccgga ggcgagcc 328

<210> 40288
 <211> 187
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-045-Q1-K1-F4

 <400> 40288

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 agaggcaaca gtcatagcgg gaacgcgaac cctgtacctc cttggcgcgga ctgtcgcggc 120
 gctcttaacc acacctgctg acgtggacgc tggcacgctg gaggagatct gaaggggaac 180
 ctccttc 187

<210> 40289
 <211> 398
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-045-Q1-K1-F5

 <400> 40289

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 ggctgccaca ttgtagcggg gccgttcccc ggccgcggcc atgtcaacgc catgatgaac 180
 ctgagccgcc tcctcgcagc cgggggcgcg gcggtcacct tcgtcgtcac cgaggagtgg 240
 ctcggactca tccgtcctc ctcgcgcgcc gccgtgccg agccggccgg cattcgcac 300
 cgcaccatcc ccaacgtcat cccttcgag cacgggcgcg ccgccaacca ctcaggcttc 360
 ctcgacgccg tcgccacaga gatggaggcg cccttcga 398

<210> 40290
 <211> 416
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-045-Q1-K1-F6

 <400> 40290

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 ccagggtggt ttggatggca cgtatgatga cctccctgag cagtcattct acatgggttg 240
 aggcattgag gaagtcattg ctaaggccga gaaaatcgcc aaggagtctg cttcataagg 300
 cggcttcttg cttgttgaat cctgtacaat caagttccat ttttggattt aagcgattgt 360
 ttatgctttt cgcagttagg cagcacgagt tggaggcca tctcctgctg agatgc 416

<210> 40291
 <211> 402
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F7

<400> 40291

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 ggacaagggc acgggcaagt cggagaagat cacgatcacg aacgagaagg ggcggctgag 180
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 ggtgaaggag cggatcgacg cccgcaacca gctggagacg tacgtgtaca acatgaagaa 300
 cacggtgggc gacaaggaca agctcgcgga caagctggaa gcggaagata aggagaagg 360
 ggaggaggcc ctcaaggaag cgctcgagtg ggtggacgac aa 402

<210> 40292
 <211> 425
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-F8

<400> 40292

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 gcggcggctc gttccccggc gcattctccc gctgccgct tcgcgcgct ccggtcgacg 180

cctcgttttcg cgagcgctgg cttgtcgggtt aagggaaacg gagcggcggtt cccgttggtc 240
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gagaagcagc ccatcatcgt catcgacaac tacgacagct tcacatacaa cctctgccag 360
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gatgt 425

<210> 40293
<211> 428
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-G1

<400> 40293

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tggatcgtgt cccggggggag aatcggacgc ggggagccac gttgtggggg gggattgctc 180
gccgccgagt catccctgcc gtggagccac gcatcacgtc gtcgggggttc tctacgccat 240
tatcattgca gtgaggtcac gaggatttga agaatcatcc tggtagctag aatctaaagt 300
gccaggagaa gaagatgtgg ttcaagagga gccacacaac gaggagttcg attcgatcta 360
tgtggcgctc cccagttgac tttatggcgc caaggatgga ctttagttcg atctatattt 420
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<210> 40294
<211> 368
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-045-Q1-K1-G11

<400> 40294

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cacgtgtctg ccaagcagtt ctgagagata acacggcttc caaagatgtc ctgaagctgc 180
gagcgaaagc gttgaaaaag ctcggaacga tattccaagg cgcaaaatct atgtaccgtc 240

gtgaaacagc ctgcgcgttg aaacgagcca natcagcagc tactcgccac tgagccatga 300
caccggtaca gggatcgatt gtgatttttg cgggttggct tgtaattgtt gctgtacata 360
catcgaaa 368

<210> 40295
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-G12

<400> 40295

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agacgaggct ggcaagcagc aaagagagac aacacggcgc gcaaagagga gcagaagctg 180
cgagcaaaaa agtgggaagaa gcacgaaacg aaaatccaag gcgcaaaaaa aacgaaccgg 240
a 241

<210> 40296
<211> 400
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-G2

<400> 40296

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ccgaggaggc cgccgtgct gcagcaggag gagcagaggg cggcagcgca agccccgggca 180
ccggcctcga agggccgatg ctgaggctgg ggctggacgg cggcggggag ggggaggacg 240
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actgtggcta ctacctccgc acgggcgcct gcggcttcgg ggagcgtgc cgctacaacc 360
acccccgcga tcgtggcggc actgaggtga gcgcgtctcg 400

<210> 40297
<211> 332

<212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-045-Q1-K1-G3

<400> 40297

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gaagaaagcg aacatgattg atgaagtaga actccgataa tatatacact agtggatcag  180
tggtcatctt tgtagccatg tctaccacac gaaggccttg attatattgn cttattgctt  240
tggttttggc ttccaatagt atcctaattc cttgttcacg taacctaatg tcactcaaag  300
cattttatat gcctcactta attaaataaa ta                               332
  
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<210> 40298
 <211> 272
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-G4

<400> 40298

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agggtgctcg atcgaggagt gcaccaaaga aaataaggct cctggcgaca agaagacatg  180
cgaagtgtcg tgcaccaagc tcacaaaaaa gcctagcgaa gaaggcaaac atgaatgatg  240
aagcagaact ccgataatat atacactagt gg                               272
  
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<210> 40299
 <211> 377
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-G5

<400> 40299

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ggcaggccag gatggagctg caatcagtga ttttggagta tgcggcatc gtgcgctcga   60
cggggcggct gaagcaggcc gaggaggagga tcggtgacct ggagtcggag tgggaggagt  120
  
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tctctgttccg gcggtgggtgg aagccgacca cgggtgggctg cgaggtctgc gagatgcgca 180
acctcttctg ctgcgccaaag ctgcgtcgtca ggagcgcgct ggccaggcgc gagagccgcg 240
gcctgcactt caccgaggac ttcccgtagc tggaagagag caggaggaag cctacggtca 300
tctttccggc cgccgtgcat gagctcacgt ggagcttcaa gccgttgcaa aggcagctgc 360
aagcagatga caatgca 377

<210> 40300
<211> 414
<212> DNA
<213> Zea mays

<223> unsure at all n locations
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<400> 40300

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cgggtggggga ctggtactac gatagggagg tcctcggca gattgattgc ccgtatccct 180
gcaacccaac ttgcaagaac cgtgatgatg attgagcaat tgtataagta gttcatgtta 240
tcgaaatgaa aacaataaag gatcacaacg cgcgccgta gttgtagatg atgaattata 300
aacacatatg actgagctca aagttgttta atcatcatct gttgcgaaat gaggaagaca 360
attggtgtct tgaagctgtg ttttcgactg tgtctaaagc gtaaagttaa cgta 414

<210> 40301
<211> 419
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-D1

<400> 40301

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cgagttcaga ttcaagaagc aggctacggg agcagttaca attcaggctc gctacagggtg 120
ctatagggct cataagtacc acaagaagct gaaatgcgca gccattgttg cacagtgcac 180
atggagagga aggatcgca ggaaagagct caagaaactc aagatggaag caagagaaac 240
gggtgcgctc aaggaagcga aggacaaact cgaaaagaaa gtggaagagc tcacatggcg 300

cgtgcagtta gagaaacgac taaggacaga cctggaagaa gcaaaagctc aagaggtgtc 360
 gaaactgcag aactctatgg aagcattaca ggctaaactg gacgagacaa acacaaagc 419

<210> 40302
 <211> 279
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-D10

<400> 40302

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 gggcgccaca aacgggttcg gggcggtctc cgtctaggac tgcgtaaacg tggaccgcat 120
 ccactggcac tacggcagcc ggttccacgc cccggagctc accgcaggct actacaacac 180
 gctgtgccac taccgggtacc tcaccatcga ggccttctg ggcgcccagg ggcctgagc 240
 taacttcacc tgcatagaga tgcaggacca cgagctgcc 279

<210> 40303
 <211> 334
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-045-Q1-K1-D12

<400> 40303

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 gccgacctac tcgctggcc gcagccccag ggccccgcc cagcaacgcc gtcgccgccg 180
 cgccggcccc gtcagccgtc ggaggctatc angaagggtg tggtcggggg tcaggtcacc 240
 gaggaggagg ccgacagcct caccaagagg aagccgtgct ccgcgcccat gtggaaggag 300
 atgactggga gcggcathtt cgcttgccgg gaggc 334

<210> 40304
 <211> 275
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-D3

<400> 40304

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cagccccggac gacaattggg gcggatgtga gtacaaagac gtgaacaaag gcccttttaa 120
caacatgggc gcatgtagga accgccccat cttcaaggat ggtctagggt gtggatcctg 180
attcgagatc aagtgtaca agccagccaa gtgctctggc aatcccctag tgggtgtacat 240
ttcaaacatg aactacgagc ccattgtggc gtacc 275

<210> 40305

<211> 434

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-D4

<400> 40305

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tcagacagtt attcaaaaat gtgcctgaac accaatagta cgttggagaa cgttgcttcg 120
accaggatta ctatcttcga tctgaaactc tgataagcag aattgaagac aaacgatcgg 180
gtacttgggg aatatggaat ttatttactg ttggtttacc tagtacttgc ctaccagcca 240
ggcgccccag gggacgacgg caaagataca gtctcgggta ttaggatggc aaaggcagcg 300
atagataaat tctactccaa gtatatgttg ggatcacgta agctgggtgct tgaccacat 360
tcaacgatct ttggcaaaag gatgcttgtc aaaagtgcga tcatgtgcta ttccaataac 420
acaagataga tcag 434

<210> 40306

<211> 282

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-D5

<400> 40306

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agttcgaac cgtagggcga cccagacga acgtggcctt aatcggcgac ggcgccgatt 120

agaccatcat cacggggaac atgaacttca agatgaacct gaccaccaag gacaccgtca 180
ccattctggc gatcggttac tgcttgttta tgcaggacat gcctatggag aacacggcgg 240
aggccgagaa ccaccagatc ctggctctgc ttttaciaag cg 282

<210> 40307
<211> 109
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-045-Q1-K1-D7
<400> 40307

gtgatgcttt ggttggggct actaagcctt tttactagta tctatcctgg ggcaactatg 60
gctcccaaga ataaaaacat ggggggtaac accaaaagta ctttgata 109

<210> 40308
<211> 418
<212> DNA
<213> Zea mays
<223> Clone ID: LIB3075-045-Q1-K1-D9
<400> 40308

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ggctcgtgct ggaggccggc cgggcggcga ccgccatgga ctgcaaggcc ggggtgtgacg 120
aggtcacggg cccactccac atgagcatgg aggactgcat gaagaggtgc aaggagatcg 180
ctgctaagca ggggcctagg gacccttaca aggataacaa acttgacatc ccatgaacta 240
attaatgctc ctatatcatc tgcctatcca tgcattgatt gcattgcgta tgcacactgt 300
gcgtgcctgc ccacaaagtt cgacaacaca ccgatctcga cggatttgta atcgtgtcca 360
ctccatcgag agatcgatcg atgcttgta ttatacttgt attccacatt atatataa 418

<210> 40309
<211> 186
<212> DNA
<213> Zea mays
<223> unsure at all n locations
<223> Clone ID: LIB3075-045-Q1-K1-E1
<400> 40309

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 caaggggggt tttttaatt gtctttgggg tttcaanttt tctttcccaa tcatattggg 120
 tttataactt ttaaatacca acccctaact tcttttctct gccctttttt tttcttcttt 180
 tggcct 186

<210> 40310
 <211> 431
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-045-Q1-K1-E10

<400> 40310

cccacgcgtc cgcccacgcg tccgcccacg cgtccgcatt tgccaagatt gtcctgcat 60
 gccctgccat ggcacacccc atcacgctcc gtaacctgtt cgacgcgatc accaactcca 120
 ccggaggacg gctgcatttc cttatctacc acaagtatct cagaatcctg aacgaggcgt 180
 tctgctctgc gaagcgtgtg ctaggggggc acagagcccc tgccctccag ctctccgacg 240
 acgaagtgat ccttgacatc cacggcgctg cgacgaccaa gccagttctc cagcacatcg 300
 gcacatccac atggcctgng aggctcacgc tgacgaacca cgcgctctac ttcgaggcta 360
 tcggcgctga tttctcgat ggagaggccg tcgtgtatga tctggcaagg gacttgaaac 420
 agtcggtgaa a 431

<210> 40311
 <211> 356
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-E11

<400> 40311

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 gggtttcgcg ccacagctgc ggtcctattc tacatcctcg ccgtcgctgc cctcaccgcg 120
 gccgaagcac tggtgagtc accgtatata ggcagtactg ccaagtaacc ggccgagtc 180
 cctaaggcag gcagtgtgct tgctcctgcc aaggcaccg agtctgtgct cacgagaact 240

gccccctgata aggcacctca agccggctcc acgcccctgcg atgccgctgc ctaatcgtaa 300
tcgacgagta ggaagtttgg accagttgcc gagccgacca ccggcgctcta tacacc 356

<210> 40312
<211> 379
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-045-Q1-K1-E12

<400> 40312

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ggcgccggct ccgtctccga ccagcggctc ctcccgggtc gcacccgcca tcgtcggggc 120
cgccgtggcc tctttcttcg cgtactacat tcaactgagcc gncggacgag gagcccgag 180
ccggaaggaa gagaccaagg tggggggaga gacttggtg ggctgcgctg ttctgctgct 240
cccgcgcatt ccgatgcgt gggcgtgctc tgattgggca cgggcgtggc agtggcacac 300
cttcgctcnc cttttggttg ttttttttac ctctcttctc tacttgattt tcaattaacg 360
aattggtatc gctgatgca 379

<210> 40313
<211> 227
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-E3

<400> 40313

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cgcacaggtc ccgcggcttt cgcttcgtca ccttctccac ggaggaggcg atgcggaacg 120
ccatcgaggg catgaacagc aaggagctgg acgggcggaa catcaccgtc aacgaggccc 180
aatcccgctg ctgccgtgga ggcggcagct gtggcgggta cagtgggt 227

<210> 40314
<211> 334
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-E4

<400> 40314

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acacgccata gtctcgtca acttccccct ttgaatgcc attgttgtca aatatggtgc 180
ctactccatc accaacgacc tcattacagc gtagttccaa gttggaacca cttataaaac 240
aaaactcatc atggaagtag cttctgatga agaaccatgt tttacaagac ctcatgtggc 300
gcacgatata gcatgacact attttttttt ggca 334

<210> 40315

<211> 328

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-E5

<400> 40315

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ccagaagatc accttccttg gtgaagctga tgaagcgct gatactgtca ctggagacat 120
tgtattcgtc ctccagcaga aggatcactc caaattcaaa agaaaggggtg aagatctctt 180
ctatgagcac accttgtctc tgaccgaagc actttgtggg ttccaatttg ttcttacaca 240
tctggacaac aggcaacttc tcatcaaadc agaccctggg gaagttgtta aacctgacca 300
attcaaggcg attaacgatg aggggatg 328

<210> 40316

<211> 97

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-E6

<400> 40316

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cagcgggctg atgggctggg cgacacaccg gaacgtc 97

<210> 40317

<211> 414

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-045-Q1-K1-E7

 <400> 40317

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 agacaccttc acacgtctct gggccttccc ctcccccttg gctccctctg tagctgggccc 120
 cgaccgaacc cccctacccc ctggaatcat cctccgatgc ggcgccgata ggggctggcg 180
 gatgagcgga atggcggggc acggcgagaa gcggcgccat acgggaaggg cccacaaaaa 240
 gcccgacgaa gaggatgaag accgcatttc ggatctgccg gacgtactgc gcctgcacat 300
 tctgagactg ctgtcgctca aatcggtcac gcagaccggt gcgctcttct cgcggtggcg 360
 ccgcatctgg gcgtaccgat ggccggagcc ctactcggtg accattcgcc ttcc 414

<210> 40318
 <211> 418
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-045-Q1-K1-E8

 <400> 40318

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 acgggtgggt cgtgccgccg gccagcgacg gcggcaggta caaccagtgg gcatccaaga 180
 accgttcct cgtcggcgac gtcgtccact tcaagtacag cgaggactcg gtgctgggtgg 240
 tgacggaggc cgactacgac agctgccgcg cgtcgcaccc cgtcttcttc tccaacaacg 300
 gagacacgga ggtgacgctg gaccgcccgg gcccgtcta cttcatcaag ggcgagaccg 360
 gccactgcga gcgcggccag cggatggctg tcagggtcgc cggccagggc gcaccccc 418

<210> 40319
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-045-Q1-K1-E9

 <400> 40319

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 gacttcgaga agctgcagcg cgtcacgctc gacctcatca ccgaggcgtc cggcaccatg 120
 tccgcaggca tcgccctgcc accctccaac gccggagcgc cctcctacgg cgcggcggcg 180
 ccttcggggg gctccgccga tgccccgcc ggcgcctccg agggccctgc gagcgccagc 240
 ggcccgctctg gtgacgacgc gccggcgctcc ggtgctggtg ccagcgcgtc ggctgctgat 300
 gc 302

<210> 40320
 <211> 364
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-C9

<400> 40320

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 cactgtccat gccatcactg ctaccagaa gactgttgat gggccctcgt ctaaggactg 180
 gaggggtgga agggctgcta gtttcaacat cattcccagc agcactggag ctgctaaggc 240
 tgttggcaaa gtgcttcctg tccttaacgg aaagttgact ggaatgtctt tccgtgtccc 300
 aaccgcgat gcttctgttg ttgatttgac tgtaaggctt gagaagtcac caacctatga 360
 tgag 364

<210> 40321
 <211> 330
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B1

<400> 40321

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 cttgagcggc aaggccttcg gctccctggc aaagcccggg ctcaacgaca agcttcgcca 180
 ctgcggcatc atggacgtcg agttcagaag ggtgcggtgc aagtaccccg ctgggcagaa 240

gatcgtgttc cacatcgaga agggctgcaa ccccaactac ctggccgtgc tggatgaagt 300
tgtggcggac gatggcgaca tcgtgctgat 330

<210> 40322
<211> 317
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B11

<400> 40322

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aaaggaagat agacgggcac ttggtataaa atcacgtgaa gcaccgcaa aatttgggtc 180
cccagaacga caaaaactaa ttgatgagat ccatgagcaa atgctcagta aggtccttc 240
tgtcccccaa acgtaccaa atgtgccaaa cgaggagtct aacgaattac ccgcatctga 300
cccttctggc gagcatg 317

<210> 40323
<211> 405
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B12

<400> 40323

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ccgggaggca acctggggaa catatacgcc ttctacaagg ggttcgagat gtgccgtgtc 120
ctcgggctcg tggaccgctg gccgcgcctc gtctgcgcgc aggcggccaa cgcgaacccg 180
ctctacggct actacaagac aggttgacc gagttccagc cgcaggtggc caggccgacg 240
ttcgcgtcag cgatccagat cggcgacccg gtgtccgtcg accgggcccgt ggtcgcgctc 300
aaggcgacgg acggcattgt cgaggaagcg acggaggaag agctcatgaa cgcgatgtcg 360
ctcgcgcacc gcacggggat gttcgcctgc ccgcacaccg gggtc 405

<210> 40324
<211> 97

<212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-045-Q1-K1-B2

 <400> 40324

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 tatgggggta ccacttgcc ttcagggggg gcctgcc 97

<210> 40325
 <211> 269
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-045-Q1-K1-B3

 <400> 40325

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 ataatttgat tgtgaaagat caagtcaatg atccattgac tgaaaagatc gctgaactta 120
 gagaaccac atttccattg gatgatggaa aagatttgca gcgtaatgct agtcatgagt 180
 taccacaaca tctcgaagac aatgatgttg ccaaaaaaga aatcatacca ttacaatctc 240
 tgctcccttt accagtaccc aaatcacct 269

<210> 40326
 <211> 432
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-045-Q1-K1-B4

 <400> 40326

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 cgcgggctac ggcgtgccc tcgccgacgc gctccgccc cgcggggg taacgagggga 180
 gtcttcgccc ttcgagctcc cccttgaaa gtacggcctc gacggagaga aggcgtgocg 240
 cgagctcctg agcttttccg attccagtgg ctctccacag gtgaccattt ttgttctgcc 300
 agactataag ccacctcttg cagcgtgtgt tgtaaaggg gtcttggaac tgatttcttc 360

tgaagctacc tccactgagc gaactctaatt tgtcccatac atcacaagat cgtcaagcta 420
tcattcatgga ac 432

<210> 40327
<211> 420
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B6

<400> 40327

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aaaataaata aagaggagtg gaaggaattt gcgttacgcc accctaacct gttaaagaat 120
atgacactgc cttatctgag ggacatcaca accgtcttcc ctagtttctgt cttcaacacg 180
gcggtggaag attagtcgct ccaattgaag gcaataaagc agtactgggg attgcttgag 240
gtgcacaagg ttctgaaac ctgacggctg ttggtcgct tcaaccactg agaattccgat 300
gtgttctgag catcaaggca gcgcacacct gaccatcact cctgctataa attataatat 360
aaattataag gctcatccgg ggtggcagat cggcagcggg aacttacctg atataatttc 420

<210> 40328
<211> 276
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B7

<400> 40328

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gaacttccca gacaagggtg gcgcgaggt ccacttcaac gcgacgtca accaccacat 120
catggaccac atcatcgctc tcgcgcacat catccgcttc aagacctgt tctgatcta 180
gctgcatatg atgctatacg ggacgccatg cgcttgggcg ttcacctgtg gactcatcga 240
caccatcatc gacagcaaga tcggattcca catcgg 276

<210> 40329
<211> 244
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B8

<400> 40329

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 ggcgctctca gacaagcaaa ccgggtcaga cctgctgcct gttgagatgg ctgtgctgca 120
 agatggagaa ttcacctggt tcaactgataa agcagcggtg tccttgcttg agaacaagta 180
 gagtcccatg gtaaccttgg ctggaagcca ttttatctca taaaataaaa gatccagggg 240
 cctg 244

<210> 40330

<211> 159

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-B9

<400> 40330

caaatgcgaa gacggtctca tcgacgtttt tcttagctct acggtgatca ccataccttaa 60
 gggccactta aacaaccaca gcggcgctcat tctctttggc gccaaaccact cctggccgca 120
 agatcagaac attcacttca tcgctgattt caaccactt 159

<210> 40331

<211> 421

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-C1

<400> 40331

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 gttcgaggga cctagccggc agtctatcga ggcaccgaaa acgaacaact gggacaacgt 120
 ctggggaaac tgagatcatg cctatgggtg caacgagttg aatcatatag aagaagtgca 180
 agggctatga cctatgggag cttgcttgcc ttttgattca tcaaaaagaa gattgcggcc 240
 agataccgcc tttggtggca acttatggga agctgtgaag aagaaactgc tgggcctctc 300
 ttgcttttcg cagctttgct ttgatgtacc tgcgagggcc atggcccatg acagtggtag 360
 gtttttcttt aatcgcaact gtaagggttg gtgaagaacg gttttacagt gcactgatat 420

<210> 40332
 <211> 416
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-C10

<400> 40332

ctttgatgga catcagcctg gatacatttc cctatgctgg tactacgact acatgtgaat 60
 cggtatacat ggggggtcca tgtgttaciaa tggctggtgc tgttcatgct cataacgttg 120
 gtgtcagctt gctcagcaaa gtcgggttgg ggaggctggt tgccaaaact gaggatgagt 180
 atgtgagcat agcgttggat ttggcatcag atgtgaatgc cttgcaagaa ctgaggatga 240
 ccctgaggga gctgatgatg aagtcgcccc tctgcgaggg agagagattc acccgggggc 300
 tggaagctgc ataatggac atgtggcgca cgtattgtga cggagacgta ccatctctca 360
 agcgcttagc actgttagag gaacatcctg ttgccaatga gccagactcg gacaaa 416

<210> 40333
 <211> 432
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-C11

<400> 40333

cgaaggttct tcagagtaca atatatgaag ttgacctga tcgaattctt cagagcatcc 60
 atatttattt acaagaactt gggatggaag aaatacggag aagggtggt gctgatgaca 120
 agccattgat aatggtcaaa actgtcttgc atgaacttgt gaagcttcgg tgaacggcaa 180
 taaaggttca cttttcaatg gttcctataa atgctgaacg ctcagcaata attctagcat 240
 acattgatct caatctcaa acccttgacg ccgctagaat gttgacgcca tcggggccta 300
 tgggtcaaac tcaactgggt gatgctgcat cgaacaatcc aaatccatct actcactcag 360
 ctgacgcgca attgaagcaa gagcttgctg ccattttcaa gaaaattggt gacaagcaaa 420
 catgtaccat tg 432

<210> 40334

<211> 394
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-045-Q1-K1-C12

 <400> 40334

 ggcaaacggc gcgctgggtcc gcgtcctggt tctcaccagc gtgaccaagt atctcaactt 60
 gaaggctggt gacgggagct gtgtgtacaa caatggctac atccacaaag tcccggcaac 120
 cgacgtggag gccctcaagt cgaacctgat gggcctgttc gagaagcggc tcgcccagaa 180
 gttcttcata tacgtgcagg actacgagga ggacgacccc aagtaccacg agggcctgga 240
 cctcaacatg gtcaccacca gggaagtcac ctccaaatac agattggaag atgatacggc 300
 ggactttatc gggcattcgc tagcacttca ccgagaccac aactaccttg acgagcctgc 360
 tatcgaccac tgtcaagagg atgaagctct atgc 394

<210> 40335
 <211> 400
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-045-Q1-K1-C2

 <400> 40335

 attcgaattt gtagagcgtg attatgctgc acatcttgat ttaacagcta aagtctatgg 60
 tcttcataaa gcagaacaga ctattgagaa aattcctgca tcttgtaggg gtgagattgt 120
 gtatagaaca cttttggcca attgtgtttc tgcattcaat ataaaaaaat cggagcacgt 180
 ttttaatatg atgaaggatc ttggatttcc ggttacacaa ttttctttca atcagcttct 240
 gttactctac aaaaggctgg acaggaagaa gattgctgat gttcttgcaa tgatggaaaa 300
 ggaggatgtg aaaccatctc tctttactta caagattctt gtagatgcca aagggttcagg 360
 tggagatata gaagctatgg agaaagtgat tgaatcaatg 400

<210> 40336
 <211> 421
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-045-Q1-K1-C5

<400> 40336
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 tgctgcagca ngaacagccg ggggagtagc tcgtcgccac tgaggagtcc cacaccgtcg 120
 aggagttcct gcaggtgcc ttcgggtacg ccggcctcag ctggaaggat cacgtgggtca 180
 ttgacaagaa gtacttccgg cctgcagaag tcgacagcct caagggggac gccaccaagg 240
 cgaggaaggt gctcaagtgg aagcccaagg ttgggttcca ggagctcgtg gagatgatgg 300
 tcgatcacga cattgagctc gccagaagg agaaggtcct ggtggatgct gggtagcgtg 360
 atcccaagca acagccatag aaacatcaca gttgcttctt gctctgntgg ggctcggatt 420
 c 421

<210> 40337
 <211> 242
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-C6

<400> 40337
 cagggagaag atgaccacaca tcatgttcga gaccttaaca ccccgctat gtacgtccca 60
 tccaggccgt gctctctctg tatgccagg gccgtaccac aggtatcgtg ctgactcgg 120
 gagatggggt gagccacacc gtcccatct acgagggata cgccctcccc cagccatcc 180
 ttcgtcttga cctggccggt cgccgacctc aaccgactat cctgatgaaa gaatcctgga 240
 ct 242

<210> 40338
 <211> 344
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-C8

<400> 40338
 aaaaaaacca gcagctagcg atggctggag cccgggcact gctcatcgtc ctgcgggctg 60
 gcgtcgcggt cctggccgcg cgggcggcgt ctgcaggcgg gggagccgcg gcggtggcgg 120
 agatctgcat gaagactccg tccccgacc tgtgcaccaa gacggggggg aagcacgcca 180

acaagtacaa gggggtggac gcggggacgg tgctagagat gcaggtggac gcgttcaaga 240
 aacgcgtgaa ggcggcgagg aggcttgcca aggaagaggt caagacggcc gcgacgcccc 300
 aggcgcggag ggcgctgaac ctctgaagaa ctactacctg gacg 344

<210> 40339

<211> 368

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A8

<400> 40339

gcctatagaa gcaatcaggc gagcggcgga tgtggcgga tgggagagca cgctgtgacg 60
 gagcgtatcc agcgggaagct ggaggaggcc aacgctaccg tccaacagca cctcgccggc 120
 atccaggacc acgtcaactt caccatgcag caagcatact tcaagtgcgc atatgattgc 180
 ttcgatcggc gccgtactca cgaagcgatc aacaattgtg tggagaattg tggatgcct 240
 gtccttgctg tcaacaatgt ttttgagagt gagatggcca agtttcagga acggttgaac 300
 cggtcattga tgggtctgtca agataagctt gaagctgcca agctccaaaa gatgaaaaca 360
 gatgcaac 368

<210> 40340

<211> 230

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G9

<400> 40340

ggcggccacc gccccacagg tagcggaggc aaagaagaag agagcggcgg atagcggcga 60
 ggcggcggag gcgaagaaga tccaggacga cttctgctcg acgctgtgcg agggcaagaa 120
 ggggacggac ctggtcgtgt gcaaggagtc ctgcgcgctc ttccagcagt ccaacctggt 180
 gctgtacggc aggatccagt gcaagggcaa gtgcaccgag cagaagggca 230

<210> 40341

<211> 308

<212> DNA

<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-044-Q1-K1-H10

<400> 40341

caagaatttg ggtcccttgg ttaagacagt gatgactcgt tgcacccaat gtacaagggtg 60
tgtgagggtt gctactgagg ttgctggagt tcaagacctt ggtatgtag gtcgtggcag 120
tggatgaaga attggaacat atgttgagaa acttatgaca agtgagctat ctggaaatgt 180
cattgatatc tgccctgttg gtgctcttac atccaagcca tttgcattta aagctcggaa 240
ctgggaactt aagggcacag agactattga tgttactgat gcagtngat ccaacataaa 300
aattgaca 308

<210> 40342
<211> 312
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H11

<400> 40342

ctccacatc taactcccc cgactcacga gttccagaga gctccatgg cgacgcaccg 60
tcgctgcctc ccaactcctc tcggggccgc cgacctcgcc ctgcgcgcg tccctgctcg 120
cgcggcgctg ggcggcgggc gcggcccgt gctgggcggg tggaaccgga tccctgacgt 180
gagcgactcg cacattcagg agctaggcgg gtgggcgctg ggcgagcga agcaccagaa 240
gctggccgcc gacgggctgc ggtttcgccg cgtggtgcgc ggcgagcaac aagtcgtgtc 300
cgggatgaac ta 312

<210> 40343
<211> 350
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H12

<400> 40343

cggacgcgtg ggcggacgcg tgggcggacg cgtgggcgga cgcgtgggat ttatgctgag 60
gaaggttcag aggctatgga tgtggctgct gccctgctg tccaggcaag ctcgttttcc 120

tgacggagac aactgcccct gctgtatgtt ctgttatttt tcagctttca cagcctaaag 180
ctacttggtc tgttattttt caggcattgg caagatacac acgaagggag gcaacttgcc 240
tatcattgac tggcaaagat tctatgttct cggggaactt taaattcaca gctctgctgc 300
cggcaactcc cagtcccagc cccaaaaaag cctgtgcgat gaactgccgt 350

<210> 40344

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H2

<400> 40344

cccggcggcg cgaagcggag ggtgagaata tcggagtctg gcgatgtcga agcggcaggg 60
agcggcgaac caccagaacc gctgcgctg gaagccgaac cttggtcaga agatcaacga 120
aaccgagccc gggggcaggt tccgacctct gtcagaaatc accggcgtct gtcagcgtg 180
ccgggatcaa atcgactgga aacgcagata cggaaaatac aagcccattg ttgagccagc 240
aaaatgccag aagtgtata agcgaaacgt tcggcaagca taccataaca ttgctccaag 300
gaccttgga tatgtgctaa gtgctgcaca tgtg 334

<210> 40345

<211> 289

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H3

<400> 40345

caaccgtgtg ccttttgag acgcgatgtc gtccggcaac aagatcagcg tggccttgct 60
gagcgtggcc ctagtgggcc tgctcctctg ccacctgcc accaccgct tcgtccacca 120
gaaagacatc cacgtcctcg gcagcgtcga cggctccagc gacggcagca gccccagtc 180
cgaaggccgc gtcgtctacg cggacatgaa gctggctgat acggaatccg atgcgccggc 240
gccggcgccg gcgccggggc cgtcgttcg ttgaactgaa aagcgtgcg 289

<210> 40346

<211> 286

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H4

<400> 40346

caagaatttg ggtcccttgg ttaagacagt gatgactcgt tgcaccaat gtacaaggcg 60
tgtgagggtt gctactgagg ttggtggagt tcaagacctt ggtatgttaa ggcgtggcag 120
tggatgaataa attggaacat atgttgagaa acttatgaca agtgagctat ctggaaatgt 180
cattgatatc tgccctgttg gtgctcttac atccaagcca tttgcattta aagctcggaa 240
ctgggaactt aagggcacag agactattga tgttactga tgcagt 286

<210> 40347

<211> 334

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H5

<400> 40347

caagaatttg ggtcccttgg ttaagacagt gatgactcgt tgcaccaat gtacaaggcg 60
ggtgagggtc gctactgagg tcgcgggagt tcaagacctt ggtatgttag gtcgtggcag 120
tcgtgaagaa attggaacat atgttgagaa acttatgaca agggagctat ctggaaatgt 180
cagtgatatc tgacctgttg gtgctcttac atgcaagcca tttgcattta aagctcggaa 240
ctgggaactt aagggcacag agactattga tgttactgct gcagagggat ccaacattac 300
aattgacagt agaggacctg aagctatgct tgtt 334

<210> 40348

<211> 251

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H7

<400> 40348

caacagatga tggatgggtt tggaggatac tatgatgaat gcatgtactg gagacaaaat 60
gatgaaattc atgatgctca taaggaggca tctgctccat gttcatcagc tcctgtctca 120
catcttggtg ctcatcagca agagtgttgg cagcactctt catatggaag tcaacatcac 180

gataaccaaa atttacttga aatggaagtc agggtaaggg gtgaaatgtc ccacattcaa 240
 caatgaatat a 251

<210> 40349
 <211> 276
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-H9

<400> 40349

gggcgcttcg ccggcgacga gcatccgcca ggtgcccgagc catgtcggtcc aatgcggggg 60
 cctccgtcgc tcccatgggc ggcgggcgctg ctcggtcccg cagtcgcagc ttcgggagca 120
 gcagcagcaa cggccggggc gccgacggca atggcgctgg ggtgttcgtg agggcggggg 180
 ccgacaacga gatgtacgtg cgggcgata agatcgacct caagaacctg gacgtgcaac 240
 tggagaaggc gccgtcccaa gtgtggctgg agcacc 276

<210> 40350
 <211> 429
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A10

<400> 40350

ctccacctat cttcttcaga cgaccagcag gatgtacgag caagaccacc taggaggcct 60
 ctctctccct ctccccagcc acccgcgtag cgagagggag ggcggaagag gatgagcgcg 120
 tccaggttca taaagtgcgt cacggtcggg gacggcgccg tcggcaagac ctgcatgctc 180
 atctcctaca cctccaacac cttccccacc gactatgttc cgacagtgtt tgataacttc 240
 agtgccaacg ttgtgggtga tggtaacact gtcaacctcg gcctctggga cactgcaggt 300
 caagaggatt acaacagact gagaccactg agctatcggtg gagctgatgt ttttcttctg 360
 gctttctcac tgatcagtaa ggccagctat gagaatgttt cgaagaagtg gatacctgaa 420
 ctgaagcat 429

<210> 40351
 <211> 429
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A11

<400> 40351

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gggtatcaag cagttctatg tgaatgtgga caaggaagac tggaagctgg acacactgtg 120
tgacctgtat gagacctgg ccattacca gagtgtcatc tttgtcaaca cccgccgcaa 180
ggtggactgg ctactgaca agatgaggag cagggaccac accgtttctg ccaactcatgg 240
tgacatggac cagaacacta gagacatcat catgaggag ttccggtctg gtcctctccg 300
tgtgtcatc accactgacc tgttgtctg ttgtattgat gttcagcagg tgteccctgg 360
catcaactat gatcttccca cccagccaga gaactacctg catcgtattg gtcgtagtgg 420
tcgttttgg 429

<210> 40352

<211> 429

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A12

<400> 40352

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tccgatccct gtccaccggt ttgggagcgc cgcagcccat ggacgacaac gagagagaga 120
aagagaatga gaatgagaag gagaagcact acgggactga cgtcgaggat gaagaagagg 180
acgaggaagg taacaagcga gtcgtggtgc ttggccccc ggtccccctc aaggagcagc 240
tcgagctcga caaggatgat gagagcctga ggaggtggaa ggagcaactc cttgggcagg 300
tcgacacaga gcagctggga gaaactgcgg aaccagaggt caaggtgctg gacctgacca 360
tcctgtcacc tggcagaccg gacctgatcc ttccgatccc gttccaggct gacgagaagg 420
gctatgcgt 429

<210> 40353

<211> 398

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A2

<400> 40353

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tgggtggtggc actagcattt ctggtagggc gtgcctggtg tggtcctccc aaggttcccc 120
cgggtaagaa catcacggcc aaatatggta gtgattggct agatgccaag gcgacatggt 180
atggcaagcc gacaggtgct gggcccgacg acaatggtgg cggtgcggg tacaaggacg 240
tgaataaggc ccctttcaac agcatgggcg cgtgtggcaa cgtccccatc ttcaaggacg 300
gtctaggttg tggatcctgc ttcgagatca agtgcgacaa gccagcagag tgctctggca 360
agcccggtgt ggtgtacatt acggacatga actacgag 398

<210> 40354

<211> 431

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A4

<400> 40354

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tatagataga actggattga tccccatgga cccatgattc tctcagacgc cactgcgcct 120
gttcgacgac gcgaagccag aaggcctcgt ggtcggggag gctgacgcag agagggacga 180
tgggaacggg ggtacccgcc tacaacggcg ctccggggcat aatagttggt caggcgtgat 240
cataggggct cactagaggc gcgtgcatcg gtccgtgggg ccgaagacgg tcggtgcggc 300
ggcgattgct cgctgggatc cgcaagaacc gccgtccgat catcctgcgt tgtcagcact 360
ctttccatca gcgccttcgg tcacgaggat ctgaagaatc accctgggac ctggaatttc 420
aagtccaag c 431

<210> 40355

<211> 358

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-045-Q1-K1-A6

<400> 40355

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 acggcgaccg cattctgtcg ggcgccacgt acgtgttcgg cgcggcgccc gtggaggtct 120
 ccgtgaaagt ggccggcata cactggcact acggcagccg gtcccacgcc cccgagctca 180
 ccgcgggcta ctacaacacg cgcgccacg acgggtacct taccatcgcg cgccttctgg 240
 cgcgccacgg tgccgagctc aacttcacct gcgtggagat gcgggaccac gagcagccgc 300
 aggaagcgcg gtgcatgccg gaagcgctgg ttccgcacgt gggcgccgca gcgcgcgc 358

<210> 40356

<211> 262

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G8

<400> 40356

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 atggagagaa aattggagat gttcggcgta tatgatggc atggaggagt ccgagcagct 120
 gagtatgtta agcagcacct tttcagcaat ttaatcaaac acccaaagtt catcactgat 180
 accaaggctg ctatcgccga aacttacaac ctcacagatt cagaatttct gaaagctgat 240
 agctgtcaaa ctcgagatgc tg 262

<210> 40357

<211> 241

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E7

<400> 40357

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 agggcccgcc accagcctct gaccctgata aagcggacat tgttgatgaa gccataactt 120
 tctttcgagc caatgttttc ttcaaaaatt tccatgtgaa aagctcagca gacaagttat 180
 tgatctatct gacgttttat atcaatattg ccttaaaaag actagacggt tgccggacac 240
 t 241

<210> 40358

<211> 276
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-044-Q1-K1-E9

 <400> 40358

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 ctatcgcggc gtaccacttc gatttggcag gcacgacgtt cggcgccatg gccagaagg 120
 gtgaggagga gaagctgcgc aaggcgggca tcatcgacat gcagttccga aggggtcaagt 180
 gcaagtagcg ctccaaagtc accttccacc ttgaaaaggg gtgtggcccc aactacctgg 240
 cgctgctggt caagtacgtc gacggcgacg gtgaca 276

<210> 40359
 <211> 342
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-044-Q1-K1-F1

 <400> 40359

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 cttggttcct agtgtctcag gaaagaatta caatccgact ctagcatgac ttccatcgga 120
 tcactaaaaa agactactta aggtgatagt gtagaggatt aggcataatg cgtgcgttta 180
 attgcacgga acctttcagg gaaaaaata tttagttcag agggttggag ggcaagatgc 240
 ctctcgggga tacatatgtc agtacgagat tacaatgtcc taacggccaa atatactcaa 300
 cactgttaac cttttttata aggtggctaa taaaaaataa ca 342

<210> 40360
 <211> 307
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-044-Q1-K1-F10

 <400> 40360

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 ttctgcatcg tgcattgtga gaaggaagag tcaaaggga tcgatgcgaa agcgtccggg 120

cctggtgggt ccttcgacat caccaagttg ggcgcctcgg gcaatggcaa gacagacagc 180
acgaaggctg tgcaggaggg atgggcatcg gcatgcggcg gcaactgggaa gcagacaatc 240
ctcataccca aggggtgactt tcttgtcgga caactcaact ttacaggccc ctttgcaggg 300
cgacgtg 307

<210> 40361

<211> 387

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F11

<400> 40361

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tccccggggg cgatcgaacg aaagctgttg tgctaccggg cggccggcat gacgatgaca 120
cggacgatgt gcctaggcct gctgcttcta ctactggcgg cggcgctcgac agcgacggcg 180
catttcacgg tcggcgatgt ggatgagtac gtgtccaagc gcacgcagga gtcccgccac 240
aggaacaacg ggtggcgcg gcatcgatga cctcatctcc agtgcgggcg gctttcacgc 300
caacgtggat gcacgcgcct atggccgtag atccgacctg caggaggagg caacagctac 360
cgtattaacc aaagcggaag cacaaga 387

<210> 40362

<211> 259

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F12

<400> 40362

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tgagactccc cgacggcgga ctggtcttga cctgccgagg cagcggcggc tcacgctcac 120
gtctatcacc agcagcagca agaggagcag cagaatgggg gcaagcacia aggagctgg 180
gctcgaggac gagctggcac ggtgaccaag ctgcacatca cggcgccgca gagccctcag 240
acggctcccc cgggcatgg 259

<210> 40363

<211> 242
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-044-Q1-K1-F2

 <400> 40363

 gtgatttgaa ataattggga ataaatagtt cgtgaatccc tgaagcgtgc atatatatat 60
 tcctgccaaag ataaaggtaa tggagtcgtc acgcagggtc cagccggcgc tcatacctgct 120
 tctcctgctc atttgtgtcca ccgatatggc acaggcaagg gaatgcgaga agtacagtga 180
 gcgatttggt ggggcatgca tgatcgaga caactgcgcc aatgtgtgcc gcggtgaggg 240
 ct 242

<210> 40364
 <211> 266
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-044-Q1-K1-F3

 <400> 40364

 gtgatttgaa ataattggga ataaatagtt cttgaatccc tgaagcgtgc atatatatat 60
 tgggtccgcg attaaggtaa tggagtcggg acacacgttt cagccgggcg ttatacctgct 120
 tctcctgctc atttgtccca ccgatatggc acaggcaatg gaatgctata cgtacattga 180
 gcgattcggg ggggcatgca tgatcgcaaa taactgctcc aatgtttgcc gggtagaggg 240
 ctttttgggc ggcaagtgtc acacct 266

<210> 40365
 <211> 252
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-044-Q1-K1-F4

 <400> 40365

 gtacatgcta cggaggattg ctgcaaagct tccgatatcc cagggtcacc ccaccagcag 60
 gggctcgaga ccagggatta ccgtatggtg agccaaaaat ggggactgac gtccagctat 120
 gaaaaacca ctgcctcccc ctatatataa tacttgcatt ggcagcctct ctgcaaaaaa 180

tatattggga tgagactccg caccgatatt ctttttctag accctactca catgggagcc 240
atctctatatt tt 252

<210> 40366
<211> 178
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F5

<400> 40366

gtacatgcta aagaggattg ctgcaaagct accgatatcc cagggtcacc ccaccagcac 60
cagctcgaga ctaggcacca ccatatgctg agccaaaaat ggagactgct gccaaagctat 120
gaaaaaacia ctgcctcgcc caacatataa cattggcttg gccggctatt ctccaaaa 178

<210> 40367
<211> 300
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F6

<400> 40367

ggcaagcaag tggaggaagt ggtggccatc aagaacaccg agattgcaa gcacctgtct 60
cttcaccag tgaagctcca ctgcagcatg ctcgctgagg acgcaatcaa ggccgccgtg 120
aaggattacg aggcaaagaa aggaagaag atggccaatg cagaggagca ggacacccca 180
tgcccgtaa agcgacagct agtaaaactga agcgagcaga gagtactgta tgtagtatgt 240
aacggctaac gagcgaggta ctcgtgtcgt gtgtgccaaa aagaagcatg tatgtaatgt 300

<210> 40368
<211> 240
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F7

<400> 40368

cggacgcgtg ggccaatcca tacgtactcc ccgtgttttt tttcctgtgc agttgttgtg 60
gtcgaggcgg caagcggcag cggtgaccca cagaggagga ggccgcaagc gcggcgatcg 120

atcgaagagg aggcaacgac gtttgaagag gcggtggcgg gcgatgtgat gctttcggaa 180
 gggatgctgc tgtttctcgt caggactgta cattacggga tgtctccttc gacgggagga 240

<210> 40369
 <211> 274
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F8

<400> 40369

gacgctagtt tgtgccccgc tgatagcaga ggcaaagaag aagagagtcg ccgccgccgc 60
 cgccgaggag aagaaggtgc aggacaactt ctgctcgacg ctgtgcgagg gcaggaaggg 120
 gatggacctg gtggtgtgca aggagtctg cgacctctca cagcgctcca acctggtgct 180
 gtacggccgg atccagtgcaggaggcaagtg caccgagcag aaggggcatca ccgcgccgca 240
 gatgaaagtg tgccaagagg cgtgcgacaa ggac 274

<210> 40370
 <211> 250
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-F9

<400> 40370

gcaccgcacg gagagcaagc aagaaagcaa ccaccgcact gccactacct aacagtggcc 60
 cgcgccctacg tgtttctcgt cgtgctcctc ctggccgctg tcatcgtggc accgttcgcg 120
 ggagcgacgc gtgtcgacgt cgttgagggc aggtccatgg cgtccgtcga cgcgccggag 180
 gccgtcgac catcaccgg gcctgactcc gcctcgtcac cggactcctc gtcggatgcg 240
 ccctacagca 250

<210> 40371
 <211> 284
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G1

<400> 40371

ctccgctggg ccaccagctt tgaccgccgc ctcccttccc ctccgctact gctcctctc 60
agcccactcc cccgcaggag cggcggcggc ggcggcgagg tcgtaccca catcggcgag 120
cggcggcggc accgccggag gcaaaggcaa gatgttcggg cgcgcgccga agaagagcga 180
caacaccaag tactacgaga tcctcggggg gcccaagtcg gcgtcccagg acgatctcaa 240
gaaagcctac cgcaaggctg ctatcaagaa ccaccccgac aagg 284

<210> 40372
<211> 150
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G10

<400> 40372

ccttgaagag acctttggcg ccgacgatgg ggcgcgaggt ccctggcaac gcactgatgt 60
tcggcggtga cgaaggcact aagcagtacc tggccggtgg cccggacacg tacgtccttg 120
gcagggggcgt ccacgtcctt gcaggcggtc 150

<210> 40373
<211> 174
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G2

<400> 40373

cccacgcgtg cgtggacgcg aaggtgaacg acaatgtcgt ctacatcgac ctggactacg 60
agacggagat ggacactgct taggccaggt atagtittga gaagagctac gagctggctg 120
acagacatgt gattaacatc ggtgcttagc gctagggctt ctctgaggta ctct 174

<210> 40374
<211> 257
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E6

<400> 40374

atcacgacaa gatggcgtgc acaacaatg cgatgagagc cttgttcctc ctggctctct 60

tctgcatcgt gcatggtgag aaggaagagt caaagggcat cgatgcgaaa gcgtccgggc 120
 ctggtgggtc cttcgacatc accaagttgg gcgcctccgg caatggcaag acagacagca 180
 cgaaggctgt gcaggaggca tgggcatcgg cgtgcggcgg cactgggaag cagacaatcc 240
 tcatacccaa ggtgac 257

<210> 40375
 <211> 289
 <212> DNA
 <213> Zea mays
 <223> unsure at all n locations
 <223> Clone ID: LIB3075-044-Q1-K1-G4
 <400> 40375

ctgaagcgtg cagacttggga ccactttgtg gcctccgacg acgactcgcc gcactcctca 60
 tcagactccc cgacggcgga ctgctcttca cctgccgagg cagcggcggc tcacgctcac 120
 gtctatcacc agcagcagca agaggagcag cagaatgggg gcaagcacia aggagctgg 180
 gctcgaggac gagctggcac ggcgaccaag ctgcacatca cggcgccgca gagccccag 240
 tcggctcccg cgggcatggc cggcggnac ttcgacccga ccagcccc 289

<210> 40376
 <211> 272
 <212> DNA
 <213> Zea mays
 <223> Clone ID: LIB3075-044-Q1-K1-G5
 <400> 40376

agcaaacctg cagtcatctc ctccaccacc accaccaagc tcaacaacag ccagctcgcg 60
 aaaataatga agagccgcag catggcatca tcggccgcgc tcttggtgct agccctcgcg 120
 ctagtggcgg ccaccgcccc acaggtagcg gaggcaaaga agaagagagc ggcggagagc 180
 ggcgaggcgg cggaggcgaa gaacatccag gacgacttct gctcgacgct gtgcgagggc 240
 aagaagggga cggacctggt cgcgtgcaag ga 272

<210> 40377
 <211> 232
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G6

<400> 40377

cttgtcccag acaaggccac gaacacgctc ttcattcatcg acagcggcctt tcgcatgacc 60
aggtgcgacc ttggcaacaa ccgtgcgacc atcgccaggt ccgggacgaa ggagttcatg 120
gaagcccttg ctgccggcgc tgatgtgtcc atgattggcc agttcggcgt cggctttctac 180
tgtgcctacc tcgtggccga tagagttgtg ccgaccacca agcacaacta tg 232

<210> 40378

<211> 275

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-G7

<400> 40378

ggctgggtat ggagtggcct tggcagtaaa agatatctac gctgatgcct ttggagaaag 60
aaatttgggc tctaacgctt gtgggcctga tggtaaagga tggacgacaa ggaaagggtga 120
atgccaaagg ttactacatt tatgagaagg gtgcgaagcc aaagccagac cctagtgtta 180
agcatgtgat cgaggagtac cgaaagcagg caaacacaat gcctgggtgga aagcctgtta 240
ctttaatgga tcaagatatt ttggagatga ttttc 275

<210> 40379

<211> 267

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C2

<400> 40379

atcgggtcaaa gacaaaagat gattgctgtg agcatcatgt ggtcattagt gcacgtgcag 60
gtgctggcgg cgatggcact agcattttctg gtaggcgggtg cctgggtgtgg tcctcccaag 120
gttcccccg gtaagaacat cacagccaac tatggtagtg attggctaga tgccaaggca 180
acatggtatg gcaagccaac aggtgccggc ccggacgaca atggtggcgg atgtgggtac 240
aaagacgtga acaaggcccc ttttaac 267

<210> 40380
 <211> 314
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-044-Q1-K1-C3

 <400> 40380

 agacaaaaca tggctgtgaa tgtgagaacc atgtggtcgt cgatgcgggc acaggttgcg 60
 atggttgtgg cgttggtgtt cttggtgagc ggcgcatggt gcggtcctcc caaagtcccc 120
 ccaggcaaga acatcacggc cacctatggc aaggactggc tggacgctaa agcgacatgg 180
 tatggcaagc cgacgggtgc cggccccgac gataacggag gcgggtgggg gtacaaagac 240
 gtgaacaagc ccccttcaa tagcatgggc gcatgcggca acattcccat ctttaaagat 300
 ggtctggggg gggg 314

<210> 40381
 <211> 284
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-044-Q1-K1-C4

 <400> 40381

 cccacgcgtc cgaaacgtca gtcattgttat ccacgagctc tcatttggcc caaagtatcc 60
 aggaattgac aaccactgg atgatacttc aaggatactt catgacacaa gtggaacctt 120
 caaatactat atcaagggtt ttccgactga gtacaaatat ctgtcaaaga aaatattgcc 180
 aacaaatcag tattctgtca cggagtattt tcttaccatt cgcccaactg aaagggcctg 240
 gccagcgggt tacttctgt atgatctctc accaattaca gtca 284

<210> 40382
 <211> 143
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-044-Q1-K1-C5

 <400> 40382

 gatcctcaac aacgaggagt gttcatcct gaagctggag gctggcgccg cgacgctgcg 60
 ggcgcggagc gtcggcgct tcgacatcat ccaccacacg gtttggggct acttcagcca 120

gcgcacgggg ctgctcattc agc

143

<210> 40383

<211> 220

<212> DNA

<213> Zea mays

<223> unsure at all n locations

<223> Clone ID: LIB3075-044-Q1-K1-C6

<400> 40383

tcgatttcga atttcaccca gctccgcacg cgcctcaacc ctttctctcn ggcgggcgcg 60

ccggcaaggc ggcagccaac cggagcggga gctgcatga agaagatctt cggcgccaag 120

aaggacaagg ggccgcccc ctccattcag gacgccaccg agcgaataaa caaacggggt 180

gagacggtgg acgagaagat caagaagctg gacgaggagc 220

<210> 40384

<211> 357

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C7

<400> 40384

catgaaccct gaaaagtatg ccgaagcaga atctgagttt cgagagttga aagcagacag 60

tgaggaggct actaagaagt ttgaacacat agttagacta atgaatgaag agcttgctcg 120

tttccaggag caaaagacag ctgatattgg actcgattc catgaatttg ccaaggggtca 180

ggctaagcta gctaaagaca ttgcggatgc atggcgagc gtcctcccaa agctcgaagc 240

ttgttccaca tcataaatgt gatttgtgtt tcctcatgat gtttggaat gggatagggg 300

ggtggcaact tgtgagttta ggcttttttt ttccagcctg gtttgacaac tgatact 357

<210> 40385

<211> 232

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C8

<400> 40385

cggacgcgtg ggtgagagga catgggagca taggagtgtt gttggtggga cctgattgct 60
 accgagtgtc cagaaagggt tgcagaattt cagttggagt caggctcgtg ggctgaattc 120
 ccatcagcag aagtttggca acggtgtgtt gattgtgagc aataatgagg gtgcacaccg 180
 caacaacgga gcagtggaca gccctagcgc agcgcagttt cagcttcaaa ag 232

<210> 40386
 <211> 217
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C9

<400> 40386

cacccttcct gctccggcct ctggctcggg cacctgcgct cgccctcgtg cggacggagc 60
 cgacagcggc aacgacggat gccgggcttc gccggcctct caatgcagca gcagtcggag 120
 cctgccgatc cggcggggccg ggccttaccg ccaccggcgg tgccggcgcc ggccgcttgt 180
 gtcgcgcgcg cgggtgcacca ccgccgggct agatctg 217

<210> 40387
 <211> 165
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-D1

<400> 40387

gacgacgacg acgaaagtgg tgaggacgtt gactgacagt ggtggcggtt gagaattcag 60
 gtgtggatac cccgcaagat gatggataac cgcgttcgag tgttcaagta ttgatatgga 120
 taccgcaaga agttactagg agagatgctg cagccttttg ggttt 165

<210> 40388
 <211> 354
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-D10

<400> 40388

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tccacttggg gctgcgcctc aggggaggca tgcacatctt cgtgaagacc ctgactggca 120
agactatcac cctcgagggtg gagtcttcag acaccatcga caacgtcaag gccaagatcc 180
aggacaagga gggcatccca ccggaccagc agcgtttgat cttcgctggc aagcagctgg 240
aagatggccg cacccttgcg gattacaaca tccaaaagga gagcaccctt caccttgtgc 300
ttccgtttaa ggggtggcatg cagatctttg tgaagacact tactggcaag acaa 354

<210> 40389
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-D2

<400> 40389

accacgaacg ctgttgtgtc atggagtgcc gccacaata gctttgtttt gggatcctca 60
tatctttggc acggtgctgc tgccaaggta cttcaagcac aacaacttct ccagctttgt 120
tcggcagctc aatacttatg gcttcagaaa ggtggatcct gacagatggg aatttgctaa 180
tgaggagttt ctgagaggtc agaggcacct cctcaaaaac attaagcgtc ggaaacctcc 240
acactca 247

<210> 40390
<211> 326
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-D3

<400> 40390

aatttacctg tgaagcaatc ttttcatatt ctgcatgaac aggggattcc tgtagctcct 60
ctctgggact cattcagagg tcaatttgtc ggccttctga gccattgga tttcatactt 120
atattgcggg agctagaaac tcatggctcg aacttgacag aagatcagct tgaaacacac 180
actatatctg catggaaaga ggctaagcgg caaacttgtg gaagaaatga tggtcagtgg 240
cgagcacatc agcatctagt gcatgccacc ctttatgagt cttgagga cattgcagta 300
aagcttttgg taaatgacat ttttac 326

<210> 40391

<211> 221
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-044-Q1-K1-D4

 <400> 40391

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 cattaggaac aaccattacc caggcatttg actatttctc tttggtttct ttccttgatg 120
 cgtctccttc cttggagact tttatattaa atgtaagggtg ttggcactgt caattcattc 180
 ggtcctgtaa attcatctta ccattctgtc catttagctt a 221

<210> 40392
 <211> 215
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-044-Q1-K1-D6

 <400> 40392

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 cgagggccaa cggcgggtgcc gccctgaggc aggcgacagg cgggtggcggt ccaccgggat 120
 caagcgacgg tgacgctccc ggggcatgcg ggcaagcatc atcgctcgctc ccgaatcgga 180
 cgagttgcag cggcgcaccc cagaccacgc ggcaa 215

<210> 40393
 <211> 293
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-044-Q1-K1-D9

 <400> 40393

 aatgtgagag gcactcacat ggtaagcaa aattaaaggc gcagtttgtg ttaccaaagt 60
 caagaaagaa agtaaagaaa gcgctggcaa gtgatgatga gactaaaagt gctgataaaa 120
 gtccactata tcaagagtct gccgattgta gtttagcgac atcttcta at gatggtggta 180
 atggaagttc tagtgtgaat atgctacata agactaagat catgacgcac ctgaaaagcg 240
 taagaccacg ttcattggaga taggatacaa ggcctacaac aagcgtattg gac 293

<210> 40394
 <211> 247
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-044-Q1-K1-E1

 <400> 40394

 ccatcccctc ggctttgtgg ccaagccggc gatgctgccg gatggttctg tcaatctcat 60
 gctctggaac tgcgtcgtcc ccggcaagga aggcactgat tgggaagggtg gatatttccc 120
 ggtcactctc catttctactg aaaattaccc aagtaacccc ccaacctgca agttcccacg 180
 aagggttttc catgtcaatg tctatgattc tggggatgta tgctgtcaa tacttgggga 240
 tgcattgg 247

<210> 40395
 <211> 302
 <212> DNA
 <213> Zea mays

 <223> unsure at all n locations
 <223> Clone ID: LIB3075-044-Q1-K1-E10

 <400> 40395

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 actatcctga ccaaggatgg caagaaccac ttgatcaaga aggatgtgcc ttgtgagact 120
 gatcagttga ctcatgttta cactttgatc atccgtcctg atgcaacata cagcattctc 180
 attgataatg aagagaagca aactggcagc atctacgagc actgngatat tcttccccta 240
 agaaaatcag gaccagagg ctaagaagcc tgaggactgg gatgacaagg agtacattcc 300
 tg 302

<210> 40396
 <211> 285
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-044-Q1-K1-C12

 <400> 40396

cgtccagaag cggttcaaag ctgacccccg caccgcccgc ggctctctcc gcctcgtctt 60
 ccacgactgc ttcgcaaacg gctgcgacgc gtccatcctg atcgacccga tgtcgaacca 120
 ggctcccgag aaggaggccg gcccacacgt ctccgtgaag ggctacgacg tgatcgagga 180
 gatcaagacc gagctggaga agaagtgcc gaacgtggtg tcgtgcgcg acatcatctc 240
 cgtgagcgcc cgcgactcgg tgaaactgac gggcgggccc gagta 285

<210> 40397
 <211> 305
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E11

<400> 40397

cccacgcgta cggccacgcg tccgcccacg cgtgcggtgg acggagatga agcgcaactg 60
 ggggcaagtg tggcagaccg gggaggacct tacctgcgag tagctgacgt tacgggtgat 120
 gaccagcgac caccgtaagg ccacctcatg gcacgttctt cccgctgact ggaagttagg 180
 tgtcacgtac cagcatgca acaacttgta acatttgaga acaagtttcc aacattggcg 240
 cccaccttta gtgaacttac ttccacttgt gatctgatgg ctatgttcaa caaccaacgt 300
 gtagc 305

<210> 40398
 <211> 416
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-044-Q1-K1-E12

<400> 40398

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 gtggcatttg gagggggccc aagttcccca aatcttttca tagtgtccga aggagacaga 120
 accagtaaac aatccttcat aggcagcttt agctgaataa accccattag cagcaatact 180
 gaaaatatga ttatcctcca cattgggatg caacacaaat tctgaaagca gattccaaag 240
 gtgaagataa tccattaaga cccaacaga tattactttc attaccttgg aagtataatt 300
 agtgggtgca tggattatgc tctnttgagg ttttaagctaa actattgtta ttgataaaat 360

aagttaaacc aaaatattgt actagcatga gtcattggta ataacatttc tttttt 416

<210> 40399
<211> 112
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E3

<400> 40399

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tgccgtccat ttactccctt cacatgtttt aaattttagt ttctgttttt tc 112

<210> 40400
<211> 226
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E4

<400> 40400

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ccacatgctg gtccagttag gaaccaccca cagcctgcgc gctaggctcg ttctacagct 180

actgttcgtg atggtggtgg tggctccatt cttggaggaa ttgggt 226

<210> 40401
<211> 241
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-E5

<400> 40401

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gcacgcttgc cgactacaac atgcagaagg agagcaccct ccacttggtg ctgcgcctca 120

ggggaggcat gcacatcttc gtgaagaccg tgaccggcaa aactatcacc ctgaggtgg 180

agtcttcaga caccatcgac aacgtcaagg ccaagatcca ggacaaggag ggcattcccc 240

c 241

<210> 40402
<211> 314
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A2

<400> 40402

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ggttcgaaga tgatttggaa tcaaacagag ccgtgagaga tcaaggctgg gggttcaccgc 120
agcttgagca aaatataact cgcttggaga aaattgtcga aattttatca caggacaaat 180
tctgttatga agctcacata ctacgggatg gtgcattcct tcaacgagca ttatctttct 240
acaggttaat gatactctgg tcagttaacc tagttggcgg atttaagatg cctttgccat 300
cacaatgtcc caag 314

<210> 40403
<211> 315
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A3

<400> 40403

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gtacggtggc ggccgacgtt taaaaggcg agctgacgcc gctgcagcgg cacgtcgctt 120
tcttcgaccg gaacaaggac ggcgtcatct accccgccga gacataccaa gggttccgcg 180
cgatcggggc cggcgtcacg ttgtctgcct tcagctccgt cttcatcaac ggcttccttg 240
gaccaagac cataccggta tatatgcatg gcattggcat ctctcccccc tcaacaggca 300
acaccctcag cgaca 315

<210> 40404
<211> 262
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A4

<400> 40404

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gaagtaatgc tgttactgct gaaggaatga gagcctttgc aaatttagtt aacttactaa 120
atctcgacct tgaagggtgc ctaaagattc atggtggcct tattcattta aaagatctga 180
caaagctcga gtcattgaat atgagatatt gcaattatat tgcggattca gatatcaaat 240
atttaacaga tctgacaaat tt 262

<210> 40405
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A5

<400> 40405

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caggttcctt ggaccactat atccaggagc gacgaagtga tccaccgcgc agccatggag 120
atgaagaagg tcctctgcgc cgccctcgtc gccgccgcct cggccaccgc cgtgctggcc 180
tcggtcgcct ccgaggcgcc ctccgaggcg cccgccggcg cggccggtgg tgcggctggc 240
cctagcgcaa 250

<210> 40406
<211> 245
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-044-Q1-K1-A6

<400> 40406

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cgccgccgcc gtngnegncc caccgctac cggcgacgct gccgccttca acgtgacgga 120
gatcctcagc cggtaaccgg agttcaagct cttcaacctc ctccctcagca agaccgcgct 180
cgcgcgcgag gtgaaccgcc ggagcgccgt caccgtgctg gtcccgga actcggccgt 240
ggact 245

<210> 40407

<211> 351
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-044-Q1-K1-A7

 <400> 40407

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 gcccagacc aacgacgaga aaggacaatc tgcggcggac ctacccgaag tcggaggcag 120
 ggcaaaaggc ccgatcccc ctecccgccg gttgccgcgc tcgtgccacg gtgcgctagc 180
 cccgtcgacg ccggcggaca gcgtgcacta tgggttgctc ctctccgtg ccagctagaa 240
 atactggagg gctgaacact atcagcaacg atagctctcc agacgccagt tcaaaggact 300
 tgcgtgctaa gttggtattg ctgggagact cacgtgttgg gaaaagttgc a 351

<210> 40408
 <211> 251
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-044-Q1-K1-B10

 <400> 40408

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 gttcccacta cttgtcactt tgctgaccaa aagaaggcaa tcatggacaa aataaaacct 120
 ctaattgatg cagccggcgc ttctggtgtc aatattatgt gottacaaga agcctggaca 180
 atgccttttg ctttctgcac acgcgagaaa agatggtgtg aatttgctga accagctgat 240
 ggagaatcta c 251

<210> 40409
 <211> 221
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-044-Q1-K1-B12

 <400> 40409

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 aagataaagg taatggagtc gtcacgcagg ttccagccgg ccgtcatcct gtttctcctg 120

ctcattgtgt ccaccgatat ggcacaggca agggaatgcg agaagtacag tgagcgattt 180
gttggggcat gcatgatcgc agacaactgc gccaatgtgt g 221

<210> 40410
<211> 266
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B2

<400> 40410

cgagatccag tccggcggtt aggaagctga atcgctgatt cggaagatgg acctggaggg 60
aaggagccta cagcctagca ttaaggctgg tttgcttgca aagctgaggg agtataaatc 120
tgacctcaac aacgtcaaga gtgagctcaa gaggatatct gcgcccaatg ccaggcaggg 180
taccggggag gagctcctgg agtctggaat ggctgatact ctgcgggtgt ctactgatca 240
gaggggaaga ttgatgatga caactg 266

<210> 40411
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B3

<400> 40411

ggctagagga gaatgcagag gagcgtgagc gcgtcacagc gaggaggagga gaggtcagcc 60
ggcttaatct ctgtggtgga caggaggtgg gtcctctccg atgctggcca ggtggattgt 120
gcctttcaag gtcaattggg gatactgatg tcggcgagtt catcgtaccg attccacatg 180
tcaagcaagt gaagctccca aatactggtg gaagactaat aattgcatca gatggaatat 240
gggacgc 247

<210> 40412
<211> 214
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B4

<400> 40412

attcaagcac ctgctcttgc cccgccaggc aacaactcag ccgccgcaac cgccacatca 60
ggcatgggcg cctgcgcaac caagcccaag acgcttgagg ggcaggcccc acctgaggcc 120
gccgtctaca cacccaaggg tgcgcccag gtcactccaa tctccgatga ggttgcggtc 180
gatgaacagg tagctgagaa cgtggtggtg gagg 214

<210> 40413
<211> 291
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-044-Q1-K1-B5

<400> 40413

cccacgcgtn cggacgccgc cgcccaaaga aagacgtcaa ctccaggaga caagatagt 60
agaactgaag agaaggatgg gcttcgagaa gcacatcctg agatccggca ccggccccc 120
gccgataaag gcccagaagg tcaccgttca ctgcaccggc tacgggaagg atcgtgatct 180
gtccaagaaa ttttgagca ccaaggaccc tgggcagcag ccattcagtt tcagcattgg 240
tcagggttca gtgatcaaaa gatgggacga gggagttatg accatgcaag t 291

<210> 40414
<211> 223
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B6

<400> 40414

ccgtaagcaa catcggtgag tgaaggctgg ctggcgccct cgtaatgacg acggtctgat 60
cctcaccgga tgaacatgag tagattcaat atcataccat ttgtttgtgt agggaatcga 120
aggctgtcgc gtaagacagt tcggctaggc cggatgacct gacggcttga cgaagagttg 180
gtgcagatcc gatcccgtag caacatcgag aaagagcgtg ctg 223

<210> 40415
<211> 462
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A12

cgcgctcgtec gccatcttcg cggggacgct gctgtcggcg gtggcggaga tacgggacac 240
gc 242

<210> 40418
<211> 247
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-B9

<400> 40418

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tcgtggggcg cgctccttcg gcgcttgctg tcggcggggtc gtgcggggccc ccgaaggtgc 120
cgccccggccc caacatcacc accaactaca acggcaagtg gctcaccgtc agggccacct 180
ggtagcgtca gccaacgggt gccggcgctc ctgacaacgg cggtgcgtgc gggatcaaga 240
acgtgaa 247

<210> 40419
<211> 223
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-044-Q1-K1-C1

<400> 40419

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gccttggtgc cagcaccaga tgtttctgtg tgtgtgtggt ggtggtttct gtacatgaaa 120
gccttttgac tggagaacca accatggcta gtttaattat gaagttcact tgttgtagcc 180
atggnangat aaactagcta aagacattgc agatgcatgg cgc 223

<210> 40420
<211> 250
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C10

<400> 40420

gagggcccga ctggcacgtg gacgctcgac accaaggccc cactcaagta ccccttttgc 60

atccgctttg ctgtcaagtc tggcgggtac cgcacgcgcg acgacgtcat ccccgccgat 120
 ttcaaggctg gcaccaccta taagaccaca ctcagcatct aatcaacctc tcatgatgaa 180
 atatatttca aaagagctca cctagcgcac tgtgtacaag acaatattat ttttttcatg 240
 ggcttttttt 250

<210> 40421
 <211> 221
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-C11

<400> 40421

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 tcatcggtga cttctactct atgtgaatt gagtgaaggc cagatgctac tatgtacacg 120
 gtgctcatag atggtattgc caccgtagga agttgcaaga tgcagcaagg atcatggatg 180
 agatggaaac cgctgggggtg cagccaaatg aggattcata c 221

<210> 40422
 <211> 304
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-G6

<400> 40422

accacgcgtc cgcgccggca aacagctgga ggatggccgc accttagcag actacaacat 60
 ccaacaggag agcaccctac accttgtgct cgtctccga ggtggtcagt aagtcatggg 120
 tcgtttaagc tgccgatgtg cctgcgtcgt ctggtgccct ctccatatgg aggttgtcaa 180
 agtatctgct gttcgtgtca tgagtcgtgt aactattgct ttaataatgg accggttgtg 240
 ttgtgtgtgc gtactacca gaactatgac aaatcatgaa ttagttctct ctttgaaatc 300
 gaaa 304

<210> 40423
 <211> 251
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-G9

<400> 40423

acaacccgaa agctgacgcc accgctctcc tgacaacgat ccaacgtcac ccaacccacc 60
ggtgctcccc ccaaaaccca ccacaaggct tgccaaggc ttcccctcaa ccatgccaca 120
ctcgcgccct tcaccgaccc catacccgcg ggcatgatcc gctgcgatgg aggactcggt 180
gccatcgctc gtcgcacctg accctaccac ttcccctgca ccttgcacgc ccccgctccc 240
gaacccgcac c 251

<210> 40424

<211> 385

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H1

<400> 40424

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ggccagtgcac cacactctac tagccgcccga gaaggagttc ttccgggatt cgagccttgc 120
tgccctcacc tctgcaggcc cagcgtcgag cggagatcca atcggaaatt caactgactt 180
cgtcttttgt cgcacccccg tcaggagaag caatgtcagg agtgatcaca aagttcgcg 240
ttacatccat ggtgatgtgg atggcccctg atgcgatcat gtatgggttt tactaccagg 300
tgtttccagg tgtgagtcag atgtcatcct ccgcgcatac acttgccagt gggttcctgg 360
cttgcataac gggtaatcta gggat 385

<210> 40425

<211> 360

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H10

<400> 40425

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attcgcgccg tcgtcgcgac cgctgagtct ccaccgcagg agggccgacg ccgtgacctg 120
ccgcgcgacc accaccacgt tccaccggct cgacgccgtc gcagtgcgag aggaagagtc 180

ccatacagtg gatctacgac agagccagcg cagcgctatc agttgctaaa ggcaactgcc 360
 tacacatatc ttctactgtg ccattatttg ctcttcaggc accttgccgc at 412

<210> 40428
 <211> 335
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H4

<400> 40428

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 ccggacatgg cctcatagat ggcgctgaac aagattaggg accaaaagga gctagtcatt 180
 acaaggatca ctacgtgtat ccggatgtag gcaggggtat aattcatgca tacgcacctt 240
 actctggtac cgctagaact gtcgcccgtt aaggacctca ggccaccttc agccgccacg 300
 atgccgctgc cgcattctgt gctgcaccta agaag 335

<210> 40429
 <211> 137
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H5

<400> 40429

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 ctgacgaccg cgagagcaca atgtgggact atcataaggc gaattatcgg ccggactaac 120
 ttaggcaggc taccgcg 137

<210> 40430
 <211> 437
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H6

<400> 40430

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ctcacatctc tgcgtgcgtc gatggcgctc ttctcggagg ctccccccgg gaacccgaaa 120
gccggcgaga agatctttaa gaccaagtgc gcgcagtgcc acacggtcga caagggcgcc 180
ggccacaagc aaggtccaaa cttgaacggt ctttttggga gacagtcggg taccactgca 240
ggctactcct actctgcggg aaacaaaaac aaggctgtag tctgggaaga agacactttg 300
tatgagtacc tgcttaaccc taaaaagtac attcctggaa ccaagatggg cttccctggg 360
ctgaagaagc cgcaggagcg tgctgatctc attgcgtacc ctaatgaagc aactgcatag 420
ctcattgaca tgccttt 437

<210> 40431
<211> 434
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-043-Q1-K1-H8

<400> 40431

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gcggtcctct tctacatcct cgccgtcgct gccctcagcg cggccgaggc accggcagag 120
tcaccgaagg caggcagtcc tgccaaggca ccggccgagt caccgaaggc aggcagtcct 180
gcagctcctg ccaaggcacc cgagtctgct gccacgagaa ctgcccccg c taaggcacct 240
caagccgcct ccacccccgc cgctgccgt gccccatcgt cgtcgtcgtc taggaagtct 300
ggtccagctg ccgcgccgac caccgncgtc tctacaccgt cttcttccac ggacgaggag 360
ttgagccctt cgccgtcggc atccaccgnc gaggtggcgt cccctgccgc tgatgggcct 420
gctgagggac ccgc 434

<210> 40432
<211> 408
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-H9

<400> 40432

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ccacgtggcg ggtcttgggg acgagctccg ttagcttgaa gcggtgctcg ggaagatggc 120

gcccggccaat ggccgtaccg tgctgatctt ccgtgtgccg tgcgggtgcc cataagagag 180
 gatggaggtc tggggcgcta agaaaagggtg cgccggatga agacgtatgg aggccatgaa 240
 aaacaaacag ctgatggctc cttatctatt atctaatacag agacatccta aacaactcat 300
 agctgagtta ctttcgcata gcggttactag gagatgacta ctaactacta gggcggtggc 360
 tgtttgagga aattgctctc attcatatag ccctattgga ctagtgga 408

<210> 40433
 <211> 294
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-044-Q1-K1-A10

<400> 40433

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 acgaccttcg ccgtcatctt atccgtcctc ttctgtgccg cggctggcac cgccgtcgac 180
 aacgacctcc ccgactacgt catccagggc cgcgtctact gcgacacctg ccgcgccggg 240
 ttcgtgacca atgtcaccca gtacattgcg ggcgccaagg tgaagctgga gtgc 294

<210> 40434
 <211> 299
 <212> DNA
 <213> Zea mays

<223> unsure at all n locations
 <223> Clone ID: LIB3075-044-Q1-K1-A11

<400> 40434

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 gtttcctgta ggttccaatg gtgcagcttc cgggctccaa gaagcggcac gccgagatgg 120
 ccacggcggc gaccgtgaaa gcggaagtgg agggtttggg ctgcngcgat ggttctcctc 180
 acaagcatgt caagccaatt gccgagccgn cgncgcagcc gtcaccttcc gaggacttgc 240
 cctttgatgt gcttgatgga cctagcccat tgggtctgcg actaagaaaa aagtcgatc 299

<210> 40435

<211> 424
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-043-Q1-K1-G5

 <400> 40435

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 ctccgtctag agcatgcac tgggtttccc cttgcttcct tccatcacac gtgcgcacgg 120
 tgctgtatac acactttaaa ggagcgtgag ggcacatgct tatgtcgata gctacctatc 180
 tagctataat gtgccaagct agcatcgacc tgctctgtca gcatcgtgga gctgtcaata 240
 cccgcttaca cggaatcata atgacccaaa ggggctcagg tctatgtcaa gaagacttca 300
 ttcatgtggg caccagcagt cactcactgc caggggcgga cgaccagaga cattaagagg 360
 cgatcgtccg ctgcaatgca tgcattcgga tatatgcatg cgtaaacaca tcgagacgcc 420
 gtaa 424

<210> 40436
 <211> 428
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-043-Q1-K1-E8

 <400> 40436

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 ggacaccaac ctgtgcgcca tccatgctaa gcgtgtgacc atcatgcca aggacattca 120
 gctggcaagg aggatccgcg gcgagaggc ctaatcgcca cctcaaacaat cgtgacaaaa 180
 acatgaagtc ctgggggttat tgtaactctg gtgccattgt aaggacatat gagtagggtt 240
 tgttttgtgg atcgcaagtt tctcttctgc tactgttgct gctacctttg ctggtgttat 300
 tgctagggtc gaataactaa gtaactatg cgctgacagt ctggactagc agtgttatgt 360
 gcgctgctgg accttgccgc cattgctttg gccgattttg tccgttaatg tcaaagaatg 420
 gtgtttcc 428

<210> 40437
 <211> 417
 <212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E9

<400> 40437

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aacttgagag agaggtctga tgggtttcaca tccgcaccc tccatgctt ctccattgtg 120

ctaaagaaag tctacaactt tgagaaaaat ctggtcgatt atgttatctt gattgagctt 180

tctttttttt ttcttctaga tggatatctga gcgcaaaaga atcgaaggag cacctccggt 240

ggttgagagt tccatgcctc cgccgcctgt atatgaagaa gtcaatggta tattcatgag 300

aaatacaggt gcaaaattgg tcgagactgt ggagtatttc ttggctgaag caatccagtc 360

ataccaagcc gaaagcgata ccgagctcaa cttttcaact ggtgactaca tagtgggt 417

<210> 40438

<211> 293

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-F2

<400> 40438

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gctgcggtgg cggcggccat gagcagcgtg agcgagagca ctaccgtcag caggtgggtcc 120

gagctggcca cgctgcgcgc gctggcgcgc gacgcctggg agcaacttct gctgtcgtgg 180

tccggcacag ttgcgtgggc gtcgtcgtc gaggcgcggg ccctatgacc acctgcacgg 240

tcacggtacg acagtcaagg tgatgcacct gctgctttga ggaccaagt gaa 293

<210> 40439

<211> 224

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-F3

<400> 40439

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actcaactta cgcaacatat ggacgtttta cgtttttctc cttggctgac gacccccatg 180
atgcttttctt tccatacatg ttagaatatg cttagaaacg tatt 224

<210> 40440
<211> 417
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-F4

<400> 40440

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gggccacgac ggcgcggttt gggcccagag caccgcattc ccacagttca agacagagga 180
gatgaccaac atcatgaagg acttcgacga gcccggttc cttgccccga ccggcctctt 240
cctcggtccc accaagtaca tggatcatcca aggcgagccc ggcgctgtca tccgcgggaa 300
gaagggatct ggaggcataa ctgtgaagaa gacagggcaa gcgatgggtg tcggcatcta 360
cgacgagccc atgacccccg gccagtgcaa catggtggtc gagaggctcg gcgacta 417

<210> 40441
<211> 424
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-F5

<400> 40441

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gtcatcgcta cgctactgtt cttttgtact taactgatgt accagaagga ggggaaacgg 120
ttttcccctt ggctgaggag cccgatgatg ctaaagatgc aaccttgtca gaatgtgctc 180
agaaaggcat tgcagtgaga ccacggaaag gtgacgcctt ctttttcttc aaccttaacc 240
cagacggcac caccgactcg gtgagcctcc atggtggttg cccggtcatt aaaaggcaga 300
aatggtcggc ttccaaatgg atccctgttg ccttggtcga taaggtccat taccacagg 360
gcaactgcac cgactagaac gagagcttct cgaaatgggc tgccctaggg gagtgcataa 420
agac 424

<210> 40442
 <211> 370
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-043-Q1-K1-F6

 <400> 40442

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 cggccacgac ggctccgttt gggcccatag caccgcattc ccacagttca cgacagagga 180
 gatgaccaac atcatgaagg acttcgacga gcccggggttc cttgccccga cgggcctctt 240
 cctcggaccc accaagtaca tggatcatcca aggcgagccc ggcgctgtca tccgcgggaa 300
 gaagggatct ggaggcataa ctgtgaagaa gacagggcaa gcgatgggtg tcggcatcta 360
 cgacgagccc 370

<210> 40443
 <211> 344
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-043-Q1-K1-F7

 <400> 40443

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 cgctcgccgg tatggcgatc cgcaaggggt cttcgtacgc cgtcgcgga cttatcgcg 120
 tcgcctctgt cgccgccgtc gcaggggagg tcttcttcca ggagaagtgc gaagatggct 180
 gggaaagtgc gtgggtcaag tccgagtga agaaggatga gaacatggct ggtgaatgga 240
 accacacttc gggaaaatgg aatggagatg ccgaggacaa aggtattcaa acctccgagg 300
 attacaggtt ctatgccatt tcaggcgaat accctgagtt cagc 344

<210> 40444
 <211> 356
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-043-Q1-K1-F8

<400> 40444

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tctccaatcc aaaaaatgta atttgttttc attaaagttt gttaaattgt tcttctaatt 120

tataaggaat tataggatgt aatggcataa tgccattcta tacgggtccat caagaaatga 180

atztatgatt tcaaattatt tcatcaaata gaattattat tttttgtaca aattgttagt 240

ggaagtatca ccttgctgac aatgtatgtc acaagtgatg ataatttgta atcattgaaa 300

tttctaattgg attgaaaata aataatgtct tgcagagtac ttggacaagt agtttt 356

<210> 40445

<211> 369

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-G10

<400> 40445

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ttgagcacat cgtggagagg atatcctgca tctctgacgc tgctcgtact gatcgtccat 120

gacagatcac agattactcg tatatcgagg acgctcttgc tgctaaagca acacacacac 180

ttaagcacct tgggctcact catatatcgt gcttgtgtgc tagtgaaata ggacacgtcg 240

aaatcgaga atcctgtcct ttttgcgcat atcgaattca tccatatact atgaggacga 300

tgcagacatt ggtgatcctt ctcaagaagg tgctgatttc ctgaggtatg ctcatgactt 360

gccttggtgta 369

<210> 40446

<211> 345

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-G2

<400> 40446

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cgaacatcca aaaggagagc accctccacc ttgagctccg tctgagaggt ggtcagtaag 120

tcatgggtcg tttaatctga cgatgtgcct gcatgccatg gtgtactgtc catatggagg 180

ttgtcaaagt atctgctggt cgtgtcatga gtcgtgtcag tggtgggttta ataatggacc 240
 ggttgtgttg tgtgtgcgta ctaccagaa ctatgacaaa tcatgaataa gtttgctggt 300
 tgaaattgaa aaaattgaaa atcaataatg tggtgcacag ttctt 345

<210> 40447
 <211> 381
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-G3

<400> 40447

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 cgacagcgcc atctaggagc tggctggcgg catctagagg ctgatagaga tcaagcggag 180
 acgaatggag aagctgtaag acctgcttgt cagcatgctg gagctgtaga acctgatgga 240
 cagccttct gatgacaaaa ggggatccag ggcattggcct gcaacatcga cgcgttcgag 300
 gacgagatca cggatcctgg cgcgctgtcc atggccttca tacgcaacag ggatgctggac 360
 gtgatgaggc tggataacct t 381

<210> 40448
 <211> 420
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-D12

<400> 40448

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 caaagcatgc caatggaaaa gattcacctc ttccacgctg tgtttctcca ttaccgaagc 120
 gtgcaacctc cggcagccct ggcagtgatg gcaaggagta aagcttgctg atttggtgat 180
 gcctagaaaa cagccttctc acggagtcac gggattgcag aaccttgaga aggttgattg 240
 agcacaatgg aagtagcagt ctgcactcaa ccgcgatcca aggttgctag ttcttttaat 300
 ggcttataga attgtgtttt ccagttgtca aaaatatgcg ctggtttgta tttttggcat 360
 atactgtgtt tttataacct tgcactgcat catctacttt atatatgcat cagtttctcg 420

<210> 40449
<211> 409
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-043-Q1-K1-D3

<400> 40449

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tagagaacaa caccaatcgg caggtgacct tctccaagcg tcggaatggc ctcacatcaaga 120
aggcctatga gctctccggt ctatgcgaca tcgacatcgc gctcatcatg ttctcgccct 180
ccaatcgcct cagccacttc tccggcaggg gcaggatcga ggacgtgatc acgaggtaca 240
tcaatctccc ggagcacgac agaggaggag ttgttcggaa tagagagtat ctgatgaaga 300
tgctnggtaa actcatatgt gacggtaaca tagccgtaca actcacacct aattaagagc 360
caatctatct caacgtaaag gagcttcagc aggagattaa gacgtacca 409

<210> 40450
<211> 429
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-043-Q1-K1-D4

<400> 40450

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agaacaggca agtcaaggcc aagcaagtta cattccaccg gaagaagaac ttgcagtact 120
atgagatttc tgccaagagc aattacaact ttgagaagcc cttcctttac ctcgctagga 180
agctggcagg gtaattagat gttttgttct tttctgctgt gctaacctgg tactggtggt 240
tatacactgc agcaaaactat tgctgtgcta acttgctact ggtgtttatg tttaggggatc 300
agaaccttca ctttgttgaa gctgntgctc tgaagccacc agaagtgcag attgatatgg 360
ccctgcagca gcagtaagtg ttttcagctc ttcctttgat ttctggcaca gcaaaaatta 420
gccgtgcaa 429

<210> 40451

<211> 434
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-D5

<400> 40451

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gctttttatat tgaagcaaga aaaatataag gacgcggaac ctagtgcaat agatcttttc 120
aaggagatgc attgtagcaa aaagaaaggt tttagtgaag atgttcagaa agctattgtt 180
gacatggaag aaatggtagc agcaccagtt caggatggac aacaacaaaa atctcctaca 240
gaagttgttt ctaatgtgct accaggctcc agtgtgttcc tacgcaatgt tgggtcttaag 300
tctgcatccc agaaaagctc cacaacgact gtttctgcaa aggttcaaca acttcaggat 360
gaactcgaga ccgagaagca agaaaaagat ggccttcggg aagaagtgga aaccttgaag 420
gctcaagcac aagc 434

<210> 40452
<211> 349
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-D6

<400> 40452

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ccatgcacat cgacggctac gccttcttcg ccgtcggcat ggggcccggc aaatggacgg 120
cagcgtcacg gagtacgtac aacctcctgg acacgggtgag ccggcacacg atccagggtg 180
acccaaggtc gtggacggcg gagatgatga cgttcgacag acgcgggtcac gtggagctgg 240
cgctccaaca tctgggagag gcagtacctc ggcgagcagc tgaacgtgag catgattagg 300
gcggagcggg cgctcatgga cgagtacaac atgcctgaaa ccagcctac 349

<210> 40453
<211> 430
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-D7

<400> 40453

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ggtgcaggag tgggtaaaac tgtgctcatt atggagctga tcaacaatgt tgctaaggcc 180

catggtggtt tctctgtgtt tgctgggtgtt ggagaacgta cccgtgaagg gaatgacctg 240

tacagagaaa tgattgaaag tgggtgtcatt aagctaggctg acaagcagag tgaaagcaag 300

tgtgctcttg tctacgggca gatgaatgag cccccgggtg ctcgtgctcg tgttgggttg 360

actggtttga ctgttgetga acatttccgt gatgctgaag gacaagatgt gcttctgttt 420

attgacaaca 430

<210> 40454

<211> 319

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E1

<400> 40454

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caatgctgca agctcttgct tccatgcaag ctctgatttt gaatgacaag ccatattaca 120

acgagccagg atatgagtcc tatgcccaaca ctctaattgg agagcggctg gctttggact 180

atactgacaa cacctttctg cactcatgca agactatgtc atactcactt cggaggcctc 240

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cggcatgcac acactacat 319

<210> 40455

<211> 424

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E10

<400> 40455

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cataacattt cttctgttga ttgatgctcc catccatcag tatcttgact gagtatttct 120

aacaaggaaa agaaaaaaaa gaggtatacc aatttgctat cgggtgtagtt gcaatgactg 180
aaattgtttt tgcttacaag aaaaagaaaa aaaacggtat aaccagaaga cgatcatggt 240
ttccctatca aggtgtcagc cgacaactaa caattgcggt atgtttcctt ttggaataat 300
caagtgtctt gtcctggagt ttggacaaca gtacatacat tctcccagca ggctgcttga 360
tgctgcatct tcttggaaaca tcagaagtta ttgatttcat ttgccctcaa aatatcagat 420
gtat 424

<210> 40456
<211> 368
<212> DNA
<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E12

<400> 40456

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ggagggggcga tggcggcggc tgatgtggag taccgttgct tcgtcggcgg gcttgccctgg 120
gccaccagca acgagtcgct ggagaatgcc ttgcctcctt acggcgagat cctcgactcc 180
aaggtcatca ccgaccggga gacggggagg tctcgcggct tcggcttcgt taccttctcc 240
tccgagaact ccatgctcga cgctatcgag aacatgaacg gcaaggagct cgacggccgt 300
aacatcaccg ttaaccaggc ccagtcccgt ggcgggtggcc gtggcggccg tggctaccgc 360
ggccgtcg 368

<210> 40457
<211> 311
<212> DNA
<213> Zea mays

<223> unsure at all n locations
<223> Clone ID: LIB3075-043-Q1-K1-E2

<400> 40457

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atttaacagc aaaacaaggc caaaataacc ctacttcaaa aacgttgagc ttcacgactt 120
ctgctccaaa tcgaaatccg taaaagagca ctgctcatct tgtaccagtg aaaaaaaaaag 180
aaacttcaga ttgatacact agttatttga cggatgcttn tacagctttc tctgccgcac 240

catcaagatc ttctgcagtg atcaaaggca ttccactttc cttaagaatc ctcttttcctt 300
 ggtctacatt g 311

<210> 40458
 <211> 287
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E3

<400> 40458

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 tttatttgta atctgaagct tacaggaaca tttgagtgga tcatggacgg attggtaggc 120
 ctcttgaaag tccgtgtggt gaggggcatc aaccttgcct accgcgacgc aagaggcagc 180
 gatccgtatg tcgacctacg acttggcatg aagtaactta agacgagcgt gaagaagaga 240
 tctgtgaacc ctatctggca cgaggagcta actctgaccg taacaga 287

<210> 40459
 <211> 433
 <212> DNA
 <213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-E4

<400> 40459

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 caaggcgcag gccagggcg agtgccaggc ggagcgcgca gcgcagtgcg ttagggacgg 180
 cgccggcgcc accgcctgcg ccgtgaccga caccgtcgga gccgcggccg acagcgcgca 240
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 ggcggcgggc gcggcggcag ccgtcaagga cacggtggcg ggcgcggcgg cggccgtcaa 360
 ggacacgggg gcgggcgcgg cggcaggcgc caatgacgcg gtgaccggcg gccactgacc 420
 gactcacgcg cgt 433

<210> 40460
 <211> 429

<212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-043-Q1-K1-E5

 <400> 40460

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 ggccatggcc atggccgccc cgccccgac ccgggcgctg tgggcgtccc gcgcgcggcg 180
 ctacctcagg atctccacct tccccagggc cttctccacc gtgctgaagg atctgaaata 240
 tgetgacact catgaatggg tgaaggttga gggcgattca gcaaccgtgg ggattactga 300
 ccatgcccag gatcatctgg gtgatgttgt ctacgtggag ctgccagaag ttggcgtcag 360
 tgtatcccag gggaagaact tcggtgctgt cgagagcgtg aaggcgacca gtgatataa 420
 ttcaccagt 429

<210> 40461
 <211> 417
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-043-Q1-K1-D11

 <400> 40461

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 agcacctgat gtgcgagatc gagggccacc acctcacgtc ggcggccatc gtctgccacg 180
 acggcgccac ctgggctcag agcaccgctt tccccgagtt caagcccag gagatggctg 240
 ccatcatgaa ggatttcgac gagccggggc acctcgcccc gaccggcctg atcctgggag 300
 gcaccaagta catggtcatc caaggcgaac ctggagctgt catccgtggc aagaagggat 360
 ccggtggcat cactgtgaag aaaacagggc agtcactcat cattggcatt tacgacg 417

<210> 40462
 <211> 392
 <212> DNA
 <213> Zea mays

 <223> Clone ID: LIB3075-043-Q1-K1-B8

<400> 40462

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catcaagaat gctttctccc cacgtgctgg gtgaggatca ttacaatact gctcgtgggtg 180

ttcagaaggt tcttcagaac tacaaaaatc ttcaggatat tattgctatc ttgggtatgg 240

atgagctcag tgaggatgac aagttgacgg tcgctcgtgc aagaaagatt cagcgtttcc 300

tgagccagcc tttccatgtc gctgaagttt tcacagggtgc tccaggaag tatgtggagc 360

tgaaagaaca tgtgaacagt ttcaagggtg tt 392

<210> 40463

<211> 400

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-B9

<400> 40463

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tatagctccc aaaattccat ggggcacaca cacatgagat tgcgactgat cgtcagacgc 120

atgccaaagg tcagaggatc aggatgagtg cggcataatt gacgcattgg aggcagcaat 180

aacacgtgtt agaatatccg ctccaaagag aaatcggtt tgtagtcccg aaattaccat 240

tcagcatgaa tgctcgtcaa acttgaagaa taatctctgc tcggctttct gacctgacct 300

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taggtgttgg acatgcgagg ataataactc agcttttcca 400

<210> 40464

<211> 435

<212> DNA

<213> Zea mays

<223> Clone ID: LIB3075-043-Q1-K1-C1

<400> 40464

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gcagccttgt gaggggactg acgtggtccc aagcaattca aggtcgcaca cttgtctgct 120